B E R I C H T E

AUS DEM

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C T D - DATA FROM THE NORTH CANARY BASIN

- "POSEIDON" CRUISE 86/2 -

26 MARCH - 13 APRIL, 1982

VON

R. KÄSE & J. RATHLEV

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Institut für Meereskunde an der Universität Kiel
Abt. Theoretische Ozeanographie
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Düsternbrooker Weg 20

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ZUSAMMENFASSUNG

Im Rahmen des Sonderforschungsbereichs 133 (Warmwassersphäre des Atlantiks) wurden im Frühjahr 1982 während der 86. Reise von F.S. POSEIDON durch Mitglieder des Instituts für Angewandte Physik und des Instituts für Meereskunde umfangreiche hydrographische Messungen mit der Kieler Multisonde im nördlichen Kanarenbecken vorgenommen. Dieser Datenband erlaubt durch die Darstellung vertikaler Profile und Schnitte von Temperatur, Salzgehalt und Anomalien des spezifischen Volumens sowie von T/S-Diagrammen erste Einblicke in die mesoskaligen hydrographischen Verhältnisse des Seegebiets zwischen Madeira und den Azoren.

SUMMARY

During the "POSEIDON" cruise 86/2 in early spring 1982 a mesoscale hydrographic survey was carried out by groups of the Institut für Angewandte Physik and the Institut für Meereskunde. The experiment took place in the northern Canary Basin between Madeira and the Azores. This data report presents vertical profiles and sections of temperature, salinity and specific volume anomalies as well as selected T/S diagrammes obtained by means of the Kiel Multisonde.

INTRODUCTION

This report presents observations of temperature and salinity in the upper 1500 m of the North Canary Basin. The observations were made in a mesoscale box onboard FS "Poseidon" between Madeira and the Azores (Fig. 1, 2). The cruise was part of the research programme of the SFB 133 ("Warmwassersphäre des Atlantiks") sponsored by the German Research Society (DFG). The main scientific aim was to obtain a quasi-synoptic mesoscale data set to be compared with currents from geostrophic calculations and satellite-tracked drift buoys with a drogue at 100 m depth deployed earlier in this area by FS "Meteor". No scientific interpretation of the data is given in this paper. A first insight into the geostrophic current field as resulting from objective analysis can be obtained from Fig. 4 showing a meandering jet-like surface current connected with a thermohaline front. Preliminary scientific results are discussed in Käse & Siedler (1982).

INSTRUMENTATION AND DATA STORAGE

The instrument used during the cruise was the "Multisonde" which was constructed by the Institute of Applied Physics of the Kiel University. The Multisonde was equipped with standard CTD sensors and sensors measuring the extinction of light (red, difference red-blue), oxygen and sound velocity.

In addition, several newly developed fast responding platinum-thermometers (Kroebel, 1981) were included in the Multisonde-system. These high resolution sensors were sampled at a rate in between 50 and 100 Hz. A pair of fast responding thermometers was used to determine the horizontal temperature finestructure. Table 1 summarizes the specifications of the sensors.

Table 1

Parameter	Symbol	Units	Resolution	Accuracy	
PRESSURE	P1	dbar	0.1	5	CTD
TEMPERATURE	T1	deg C	0.001	0.005	CTD
CONDUCTIVITY	L1	mS/cm	0.001	0.005	CTD
TEMPERATURE	T0	deg C	0.001	0.005	0.5m above T
TEMPERATURE	T4	deg C	0.001	0.05	fast respons
TEMPERATURE	T7	deg C	0.001	0.05	-"-
TEMPERATURE	T9	deg C	0.001	0.1	-"-
DIFF.Temperature	T8	deg C	0.0001	0.05	-"-
ATTENUATION	R0	1/m	0.0001	0.02	red light
ATTENUATION	R1	1/m	0.001	0.1	-"-
DIFF.ATTENUATION	RB	1/m	0.001	0.1	red-blue
OXYGEN	02	mg/l	0.001	1	
SOUND VELOCITY	V1	m/s	0.01	0.05	
derived quantities					
SALINITY (*)	S0	ppt	0.001	0.005	Unesco 81
ANOMALY (*)	D0	cm^3/kg	0.001	0.005	-"-
SOUND VELOCITY	DG	m/s	0.01	0.01	DelGrosso

(*) from P1, T0, L1.

Since the telemetric device using a 60 KHz transmission only allows the sampling at 1/640 Hz, not all the sensors could be deployed simultaneously. We applied several combinations in addition to the standard CTD sensors P1, T1, L1, T0.

Original data and derived quantities were recorded on magnetic tapes using a NOVA Computer, run with special operational systems (DT7. Rathlev, 1981). Simultaneously, CTD data were transmitted at a lower sampling rate (0.4Hz) to a second NOVA Computer where further calculations (e.g. dynamic height, depth of isothermes etc.) and quick look display were carried out (see Fig. 3).

GRAPHICAL PRESENTATION

All the profile graphics presented here were made onboard right after the cast. When a section had been completed, contours of isolines were determined and plotted automatically.

Included in this volume are only CTD data; other parameters will be presented elsewhere.

Preliminary checks of salinity and temperature revealed no significant deviations from the laboratory calibration of the Multisonde. In order to present data as soon as possible after the cruise no corrections were performed with the data set at this stage.

The figures shown are grouped into three chapters. Chapter 1 contains vertical profiles of temperature, salinity and anomaly of specific volume. Since the electronic circuit of T1 had a fault at high temperatures, the values of the second sensor T0 are shown in all graphics. All derived parameters are computed from T0, too. Chapter 2 shows selected T/S diagrammes and Chapter 3 includes several meridional sections with different vertical resolution.

LITERATURE

Käse, R.H. & G. Siedler, 1982: Meandering of the subtropical front southeast of the Azores. NATURE. submitted

Kroebel, W., 1981: A thermometer for oceanographic research with a time constant of about 1 ms and a resolution of less than 0.001K: Its properties and results of its application on cruises. IEEE-J. of Oceanic Engineering, vol. OE-6,4.118-124

Rathlev J., 1981: DT7 - Data Transfer Programme Rev. 7.5, User's Manual. Institute of Applied Physics, Kiel University. unpublished manuscript.

Acknowledgement:
The cooperation of the officers and crew of FS "Poseidon". Captain H. Schmickler commanding, is gratefully acknowledged. We are indebted to Mssrs. N.v. Bosse, K.H. Mahrt. P. Reimer. H.C. Waldmann of the Institut für Angewandte Physik and J. Brandt, W. Hiller, J. Holtorff of the Institut für Meereskunde an der Universität Kiel, whose efforts on the cruise made these data available.

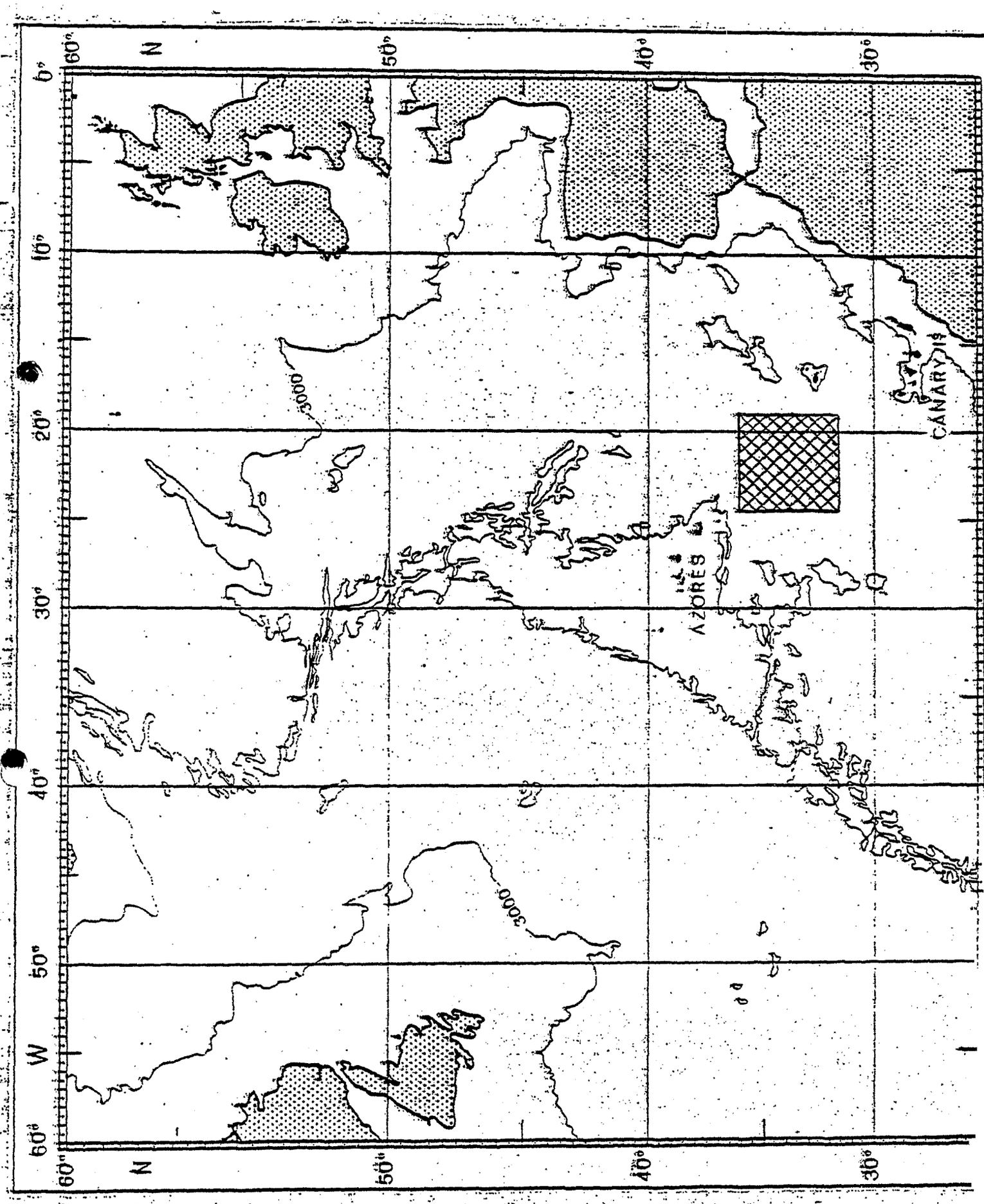


Fig. 1: LOCATION OF HYDROGRAPHIC BOX DURING POSEIDON CRUISE 86/2

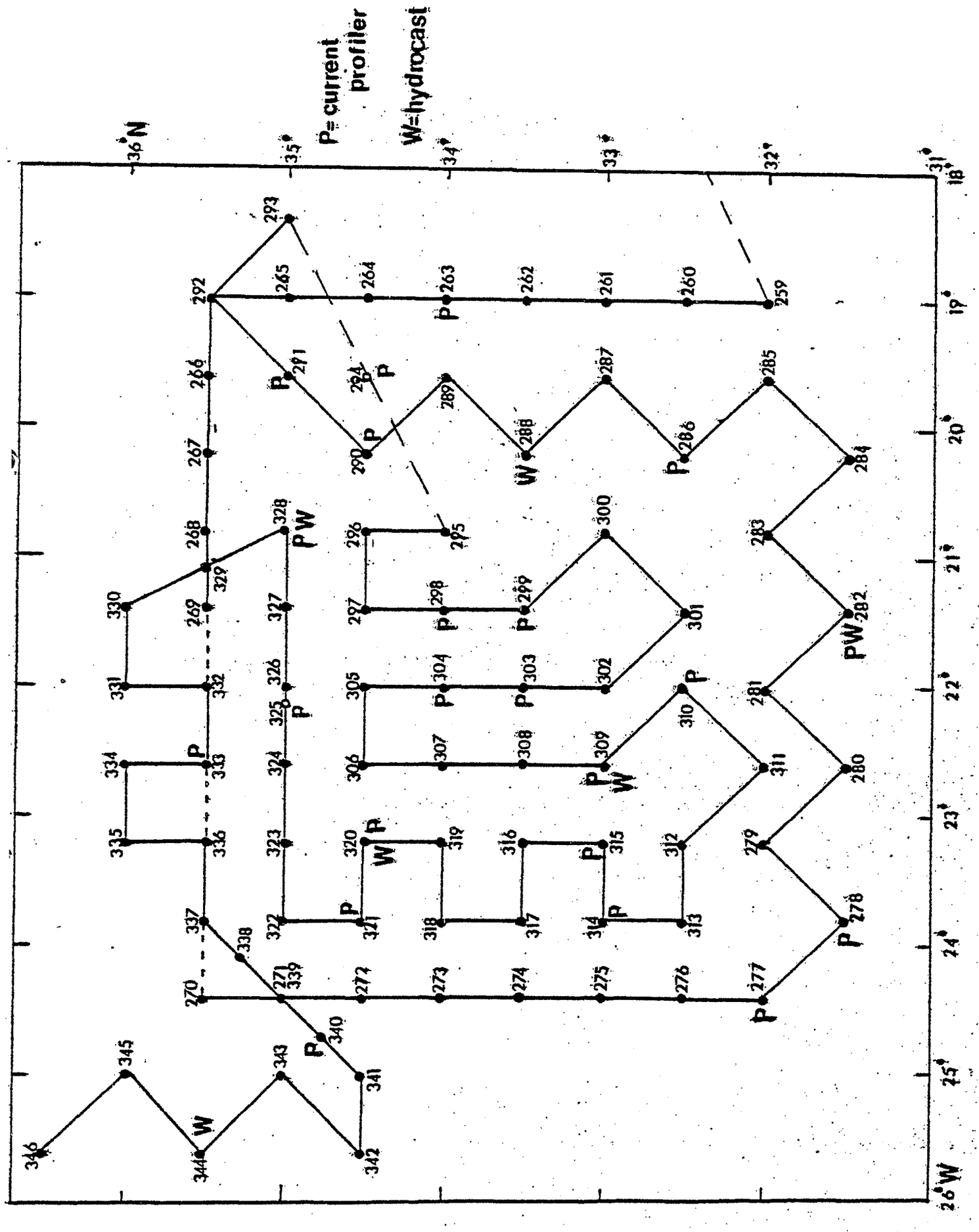
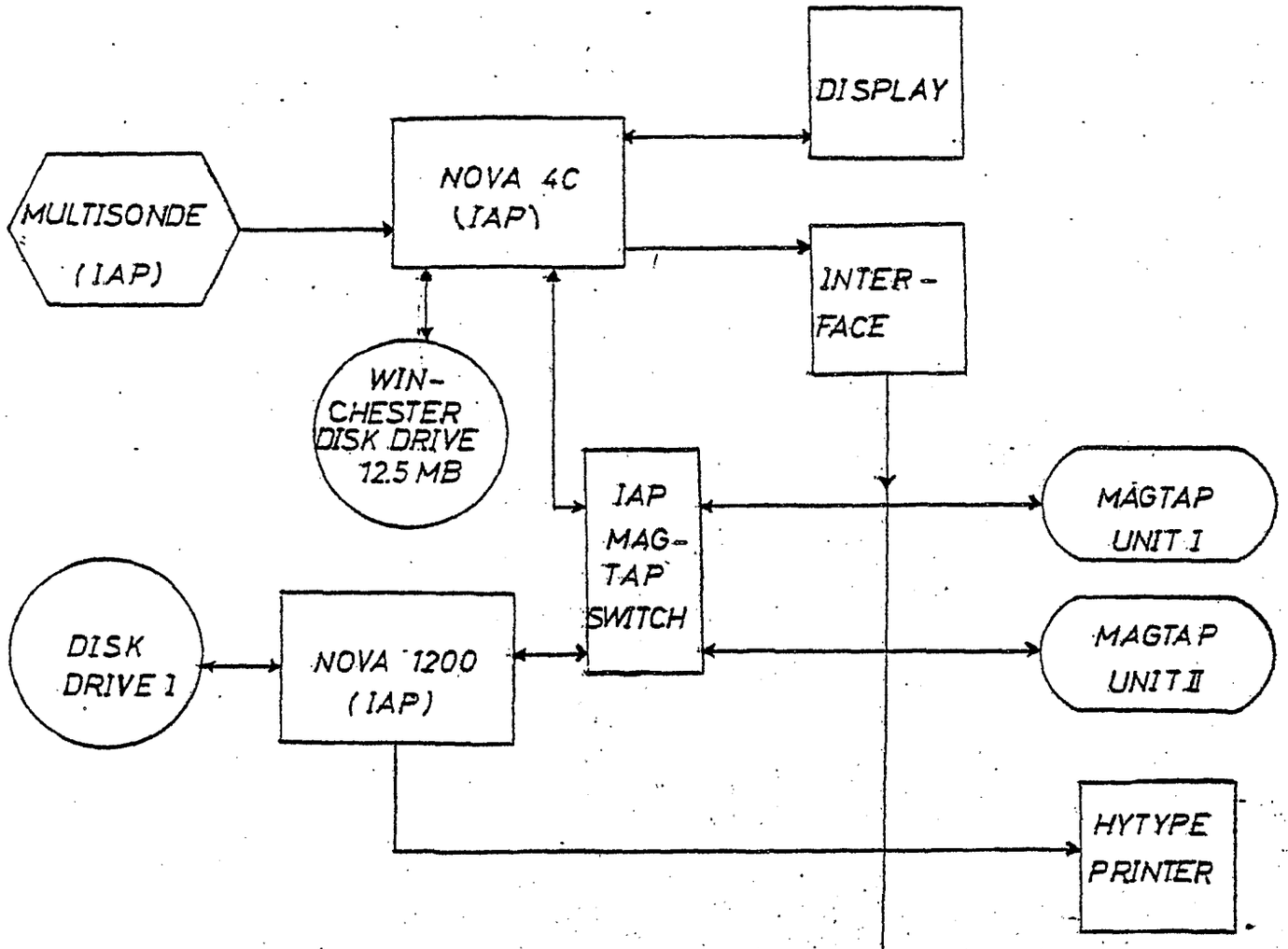
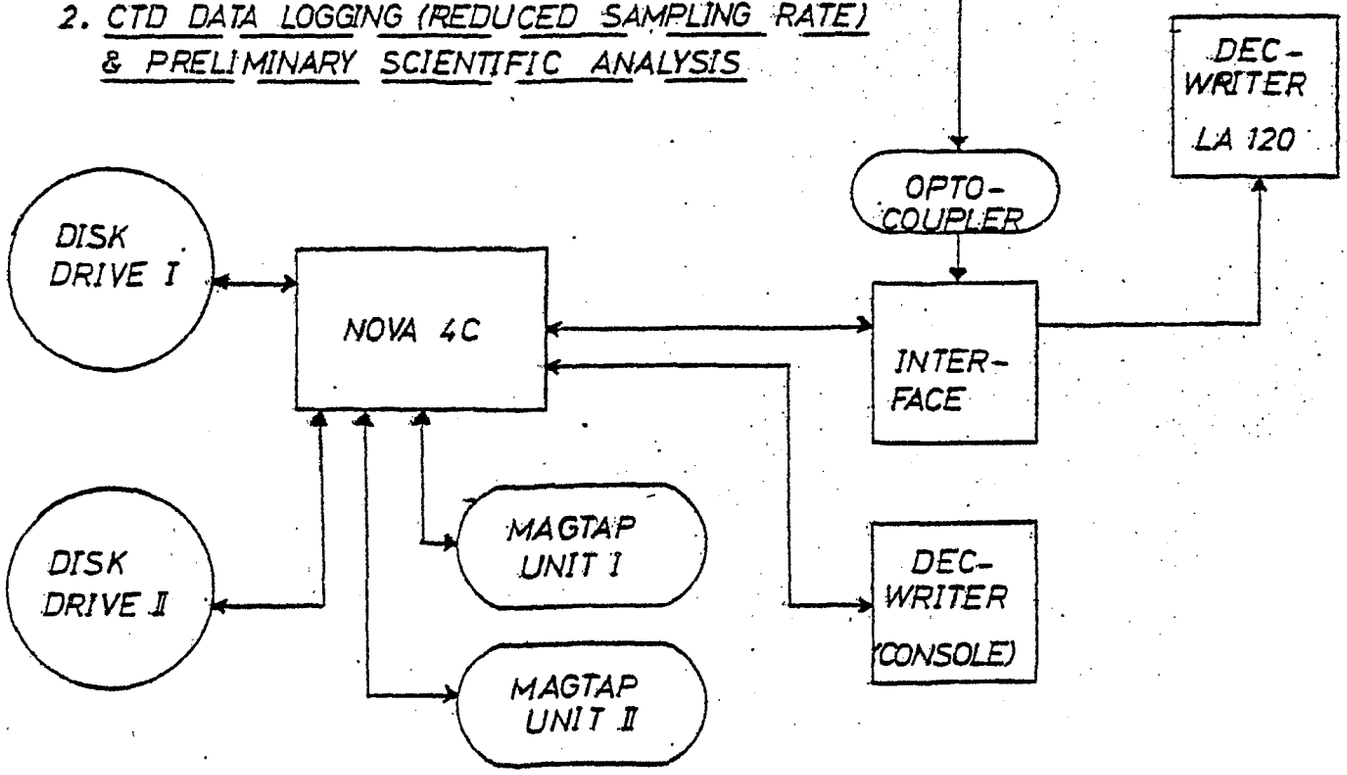


Fig. 2: LOCATION OF STATIONS

1. CTD DATA LOGGING (HIGH SAMPLING RATE) & STANDARD PROCESSING (IAP)



2. CTD DATA LOGGING (REDUCED SAMPLING RATE) & PRELIMINARY SCIENTIFIC ANALYSIS



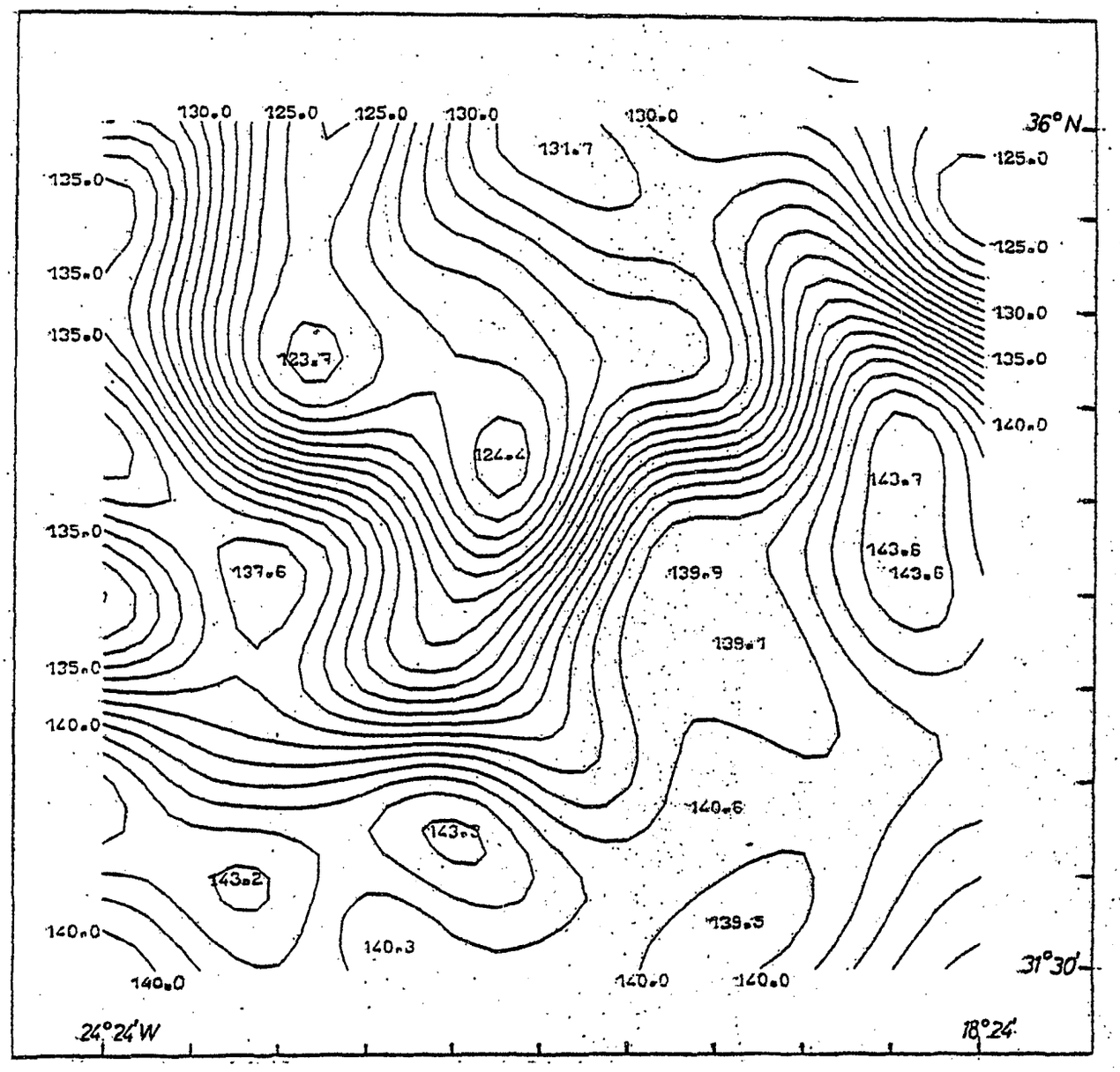


Fig. 4: ESTIMATED DYNAMIC HEIGHT CONTOURS (dyn cm) RELATING TO 1500 dBar

STATION LIST MULTISONDE

POSEIDON 86 - 2

FILE	STAT.	PROF.	DATE	TIME	LAT.	LONG.	DEP
* 0	255	1	19. 3.82	15: 6: 2.00	46:10:30	7:33: 0	45
* 1	256	2	20. 3.82	15: 3:26.00	42:37: 6	10:11: 6	16
* 2	257	3	21. 3.82	15:13:17.00	38:54: 0	12:55:48	32
3	259	4	26. 3.82	17:20:59.00	32: 0: 0	19: 0: 0	44
4	260	5	26. 3.82	21:20: 8.00	32:30: 0	19: 0: 0	39
5	261	6	27. 3.82	0:48:47.00	33: 0: 0	19: 0: 0	36
6	262	7	27. 3.82	5:20:30.00	33:30: 0	19: 0: 0	43
7	263	8	27. 3.82	9:52:38.00	34: 0: 0	19: 0: 0	42
8	264	9	27. 3.82	14: 8:44.00	34:30: 0	19: 0: 0	49
9	265	10	27. 3.82	18: 7: 8.00	35: 0: 0	19: 0: 0	46
10	266	11	28. 3.82	1:42:39.00	35:30: 0	19:36: 0	52
11	267	12	28. 3.82	5:40:58.00	35:30: 0	20:12: 0	51
12	268	13	28. 3.82	9:48: 0.00	35:30: 0	20:48: 0	54
13	269	14	28. 3.82	14:18:24.00	35:30: 0	21:24: 0	51
14	270	15	29. 3.82	7:26:28.00	35:30: 0	24:24: 0	41
15	271	16	29. 3.82	11:26:30.00	35: 0: 0	24:24: 0	5
16	272	17	29. 3.82	15: 4: 0.00	34:30: 0	24:24: 0	4
17	273	18	29. 3.82	18:53:31.00	34: 0: 0	24:24: 0	4
18	274	19	29. 3.82	22:15: 7.00	33:30: 0	24:24: 0	5
19	275	20	30. 3.82	2:12:30.00	33: 0: 0	24:24: 0	5
20	276	21	30. 3.82	5:17:40.00	32:30: 0	24:24: 0	5
21	277	22	30. 3.82	8:58:22.00	32: 0: 0	24:24: 0	5
22	278	23	30. 3.82	15:13:31.00	31:30: 0	23:48: 0	5
23	279	24	30. 3.82	21:17:45.00	32: 0: 0	23:12: 0	5
24	280	25	31. 3.82	2:11:40.00	31:30: 0	22:36: 0	51
25	281	26	31. 3.82	7:33:51.00	32: 0: 0	22: 0: 0	5
26	282	27	31. 3.82	13:37:10.00	31:30: 0	21:24: 0	4
27	283	28	31. 3.82	20:18:18.00	32: 0: 0	20:48: 0	4
28	284	29	1. 4.82	1:11:17.00	31:30: 0	20:12: 0	4
29	285	30	1. 4.82	6:22:39.00	32: 0: 0	19:36: 0	4
30	286	31	1. 4.82	11:44:55.00	32:30: 0	20:12:30	4
31	287	32	1. 4.82	17: 6:43.00	33: 0: 0	19:36: 0	3
32	288	33	1. 4.82	22: 3:11.00	33:30: 0	20:12: 0	5
33	289	34	2. 4.82	4: 2:58.00	34: 0: 0	19:36: 0	4
34	290	35	4. 2.82	9:30:59.00	34:29:48	20:11:54	3
35	291	36	2. 4.82	15: 1:31.00	35: 0: 0	19:36: 0	4
36	292	37	2. 4.82	20:39: 0.00	35:30: 0	19: 0: 0	5
37	293	38	3. 4.82	1:36:35.10	35: 0: 0	18:24: 0	4
38	295	39	3. 4.82	20: 7:29.00	34: 0: 0	20:48: 0	4
39	296	40	4. 4.82	0:34:10.00	34:30: 0	20:48: 0	5
40	297	41	4. 4.82	6:17:35.00	34:30: 0	21:24: 0	5
41	298	42	4. 4.82	10:23:12.00	34: 0: 0	21:24: 0	5
42	299	43	4. 4.82	14:57:26.00	33:30: 0	21:24: 0	5
43	300	44	4. 4.82	20:40:27.00	33: 0: 0	20:48: 0	5
44	301	45	5. 4.82	1:50:11.00	32:30: 0	21:24: 0	5
45	302	46	5. 4.82	6:51:31.00	33: 0: 0	22: 0: 0	5
46	303	47	5. 4.82	11:17:56.00	33:30: 0	22: 0: 0	5
47	304	48	5. 4.82	15: 8: 2.00	34: 0: 0	22: 0: 0	5
48	305	49	5. 4.82	19: 7:44.00	34:30: 0	22: 0: 0	5
49	306	50	5. 4.82	22:55:12.00	34:30: 0	22:36: 0	5
50	307	51	6. 4.82	2:37:15.00	34: 0: 0	22:36: 0	5
51	308	52	6. 4.82	6: 0:32.00	33:30: 0	22:36: 0	5
52	309	53	6. 4.82	9:40: 7.00	33: 0: 0	22:36: 0	5
53	310	54	6. 4.82	16:26:20.00	32:30: 0	22: 0: 0	5
54	311	55	6. 4.82	22:23:40.00	32: 0: 0	22:36: 0	5
55	312	56	7. 4.82	3:36:21.00	32:30: 0	23:12: 0	5
56	313	57	7. 4.82	7:42:21.00	32:30: 0	23:48: 0	5
57	314	58	7. 4.82	11:30:18.00	33: 0: 0	23:48: 0	5
58	315	59	7. 4.82	15:33:30.00	33: 0: 0	23:12: 0	5

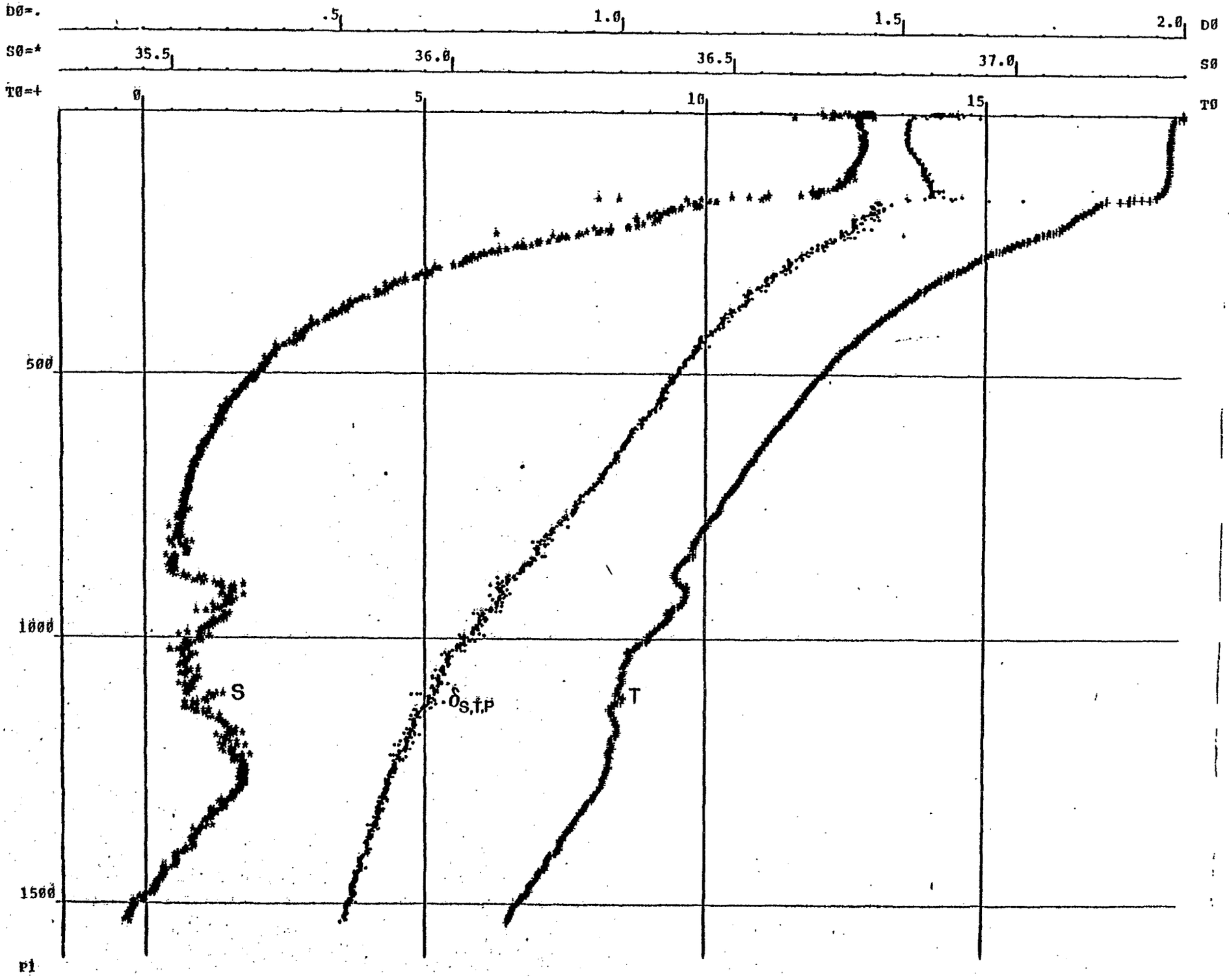
STATION LIST MULTISONDE

Poseidon 86-82

FILE	STAT.	PROF.	DATE	TIME	LAT.	LONG.	DEP
59	316	60	7. 4.82	19:40:43.00	33:30: 0	23:12: 0	53
60	317	61	7. 4.82	23:58:59.00	33:30: 0	23:48: 0	52
61	318	62	8. 4.82	3:28:25.00	34: 0: 0	23:48: 0	52
62	319	63	8. 4.82	6:46: 6.00	34: 0: 0	23:12: 0	52
63	320	64	8. 4.82	11:17:14.00	34:30: 0	23:12: 0	50
64	321	65	8. 4.82	16:56:38.00	34:30: 0	23:47:54	52
65	322	66	8. 4.82	20:48:21.00	35: 0: 0	23:48: 0	44
66	323	67	9. 4.82	0:28:23.00	35: 0: 0	23:12: 0	47
67	324	68	9. 4.82	3:47: 2.00	35: 0: 0	22:36: 0	50
68	326	69	9. 4.82	7:46: 0.00	35: 0: 0	22: 0: 0	50
69	327	70	9. 4.82	11:34:34.00	35: 0: 0	21:24: 0	51
70	328	71	9. 4.82	15:33:21.00	35: 0: 0	20:48: 0	51
71	329	72	9. 4.82	20:41: 7.00	35:30: 0	21: 7: 0	51
72	330	73	10. 4.82	1: 4:21.00	36: 0: 0	21:24: 0	46
73	331	74	10. 4.82	5: 3:58.00	36: 0: 0	22: 0: 0	42
74	332	75	10. 4.82	8:23:53.00	35:30: 0	22: 1: 6	56
75	333	76	10. 4.82	16: 6:24.00	35:30: 0	22:36: 0	50
76	334	77	10. 4.82	20:34:39.00	36: 0: 0	22:36: 0	39
77	335	78	11. 4.82	0:40:17.00	36: 0: 0	23:12: 0	39
78	336	79	11. 4.82	4:10:32.00	35:30: 0	23:12: 0	45
79	337	80	11. 4.82	7:32:25.00	35:30: 0	23:48: 0	48
80	338	81	11. 4.82	10:36:46.00	35:15: 0	24: 6: 0	49
81	339	82	11. 4.82	13:39:12.00	35: 0: 0	24:24:18	50
82	340	83	11. 4.82	17: 9:37.00	34:45: 0	24:43: 0	51
83	341	84	11. 4.82	19:43:18.00	34:30: 0	25: 0: 0	49
84	342	85	11. 4.82	23:22:50.00	34:30: 0	25:36: 0	51
85	343	86	12. 4.82	5: 3:42.00	35: 0: 0	25: 0: 0	48

* Test stations during leg 1

VERTICAL PROFILES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DØ
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36.0
36.5
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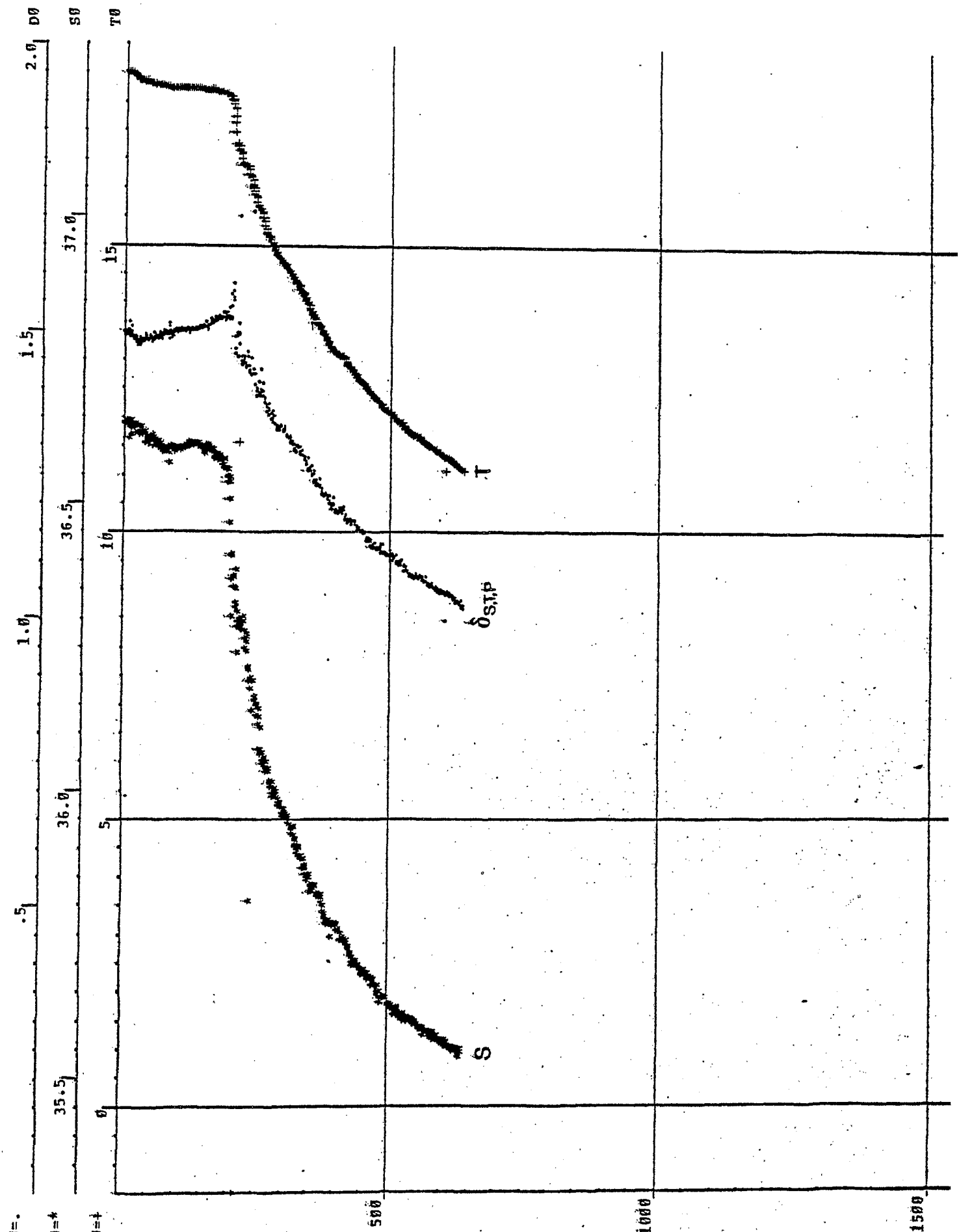
SØ
0
5
10
15
TØ
500
1000
1500
P1
S
δS,t,P
T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2.Ø
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36.Ø
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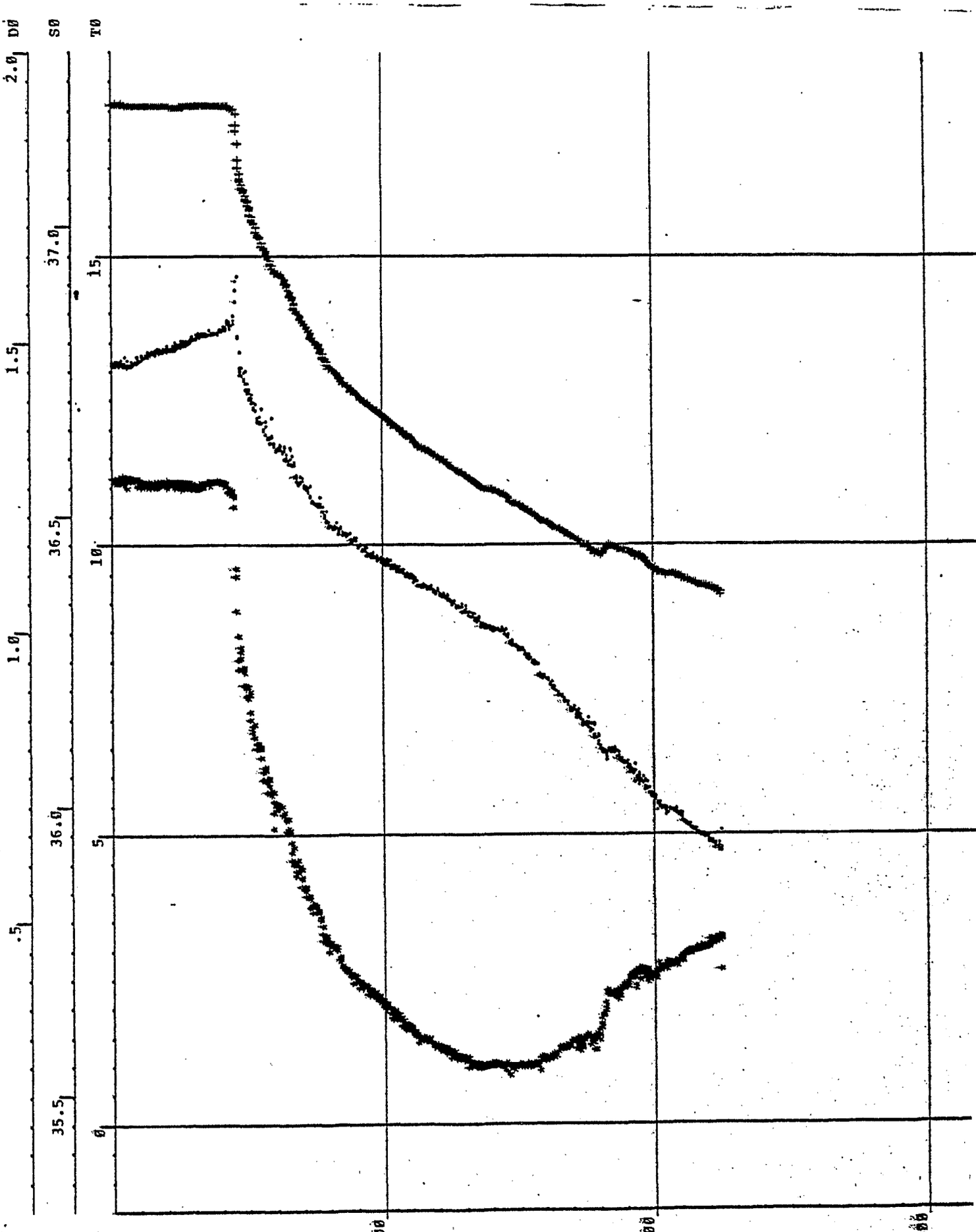
Ø
5
1Ø
15
TØ
5ØØ
1ØØØ
15ØØ
S
T
δS,T,P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2.Ø
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1.Ø
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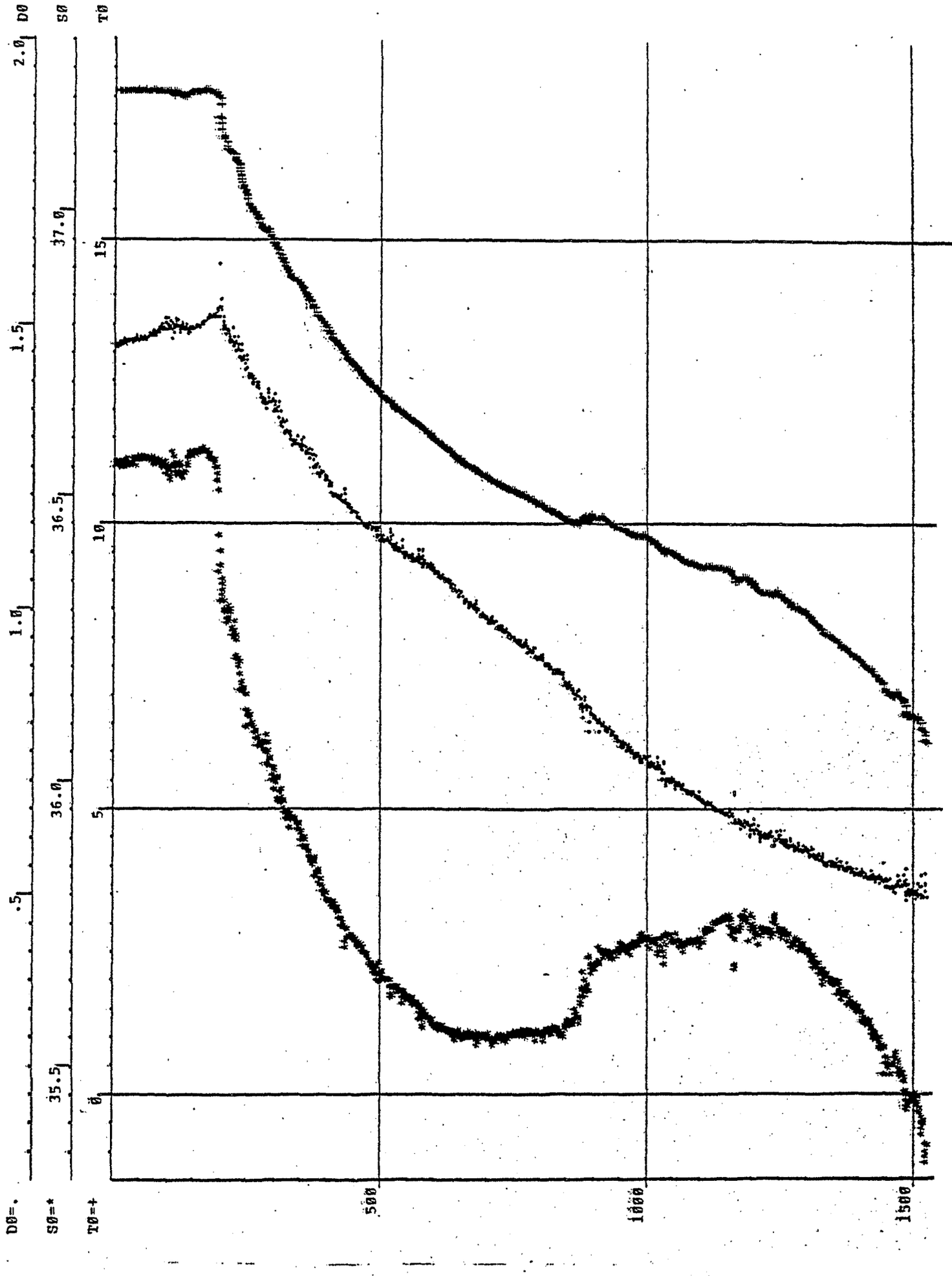
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5
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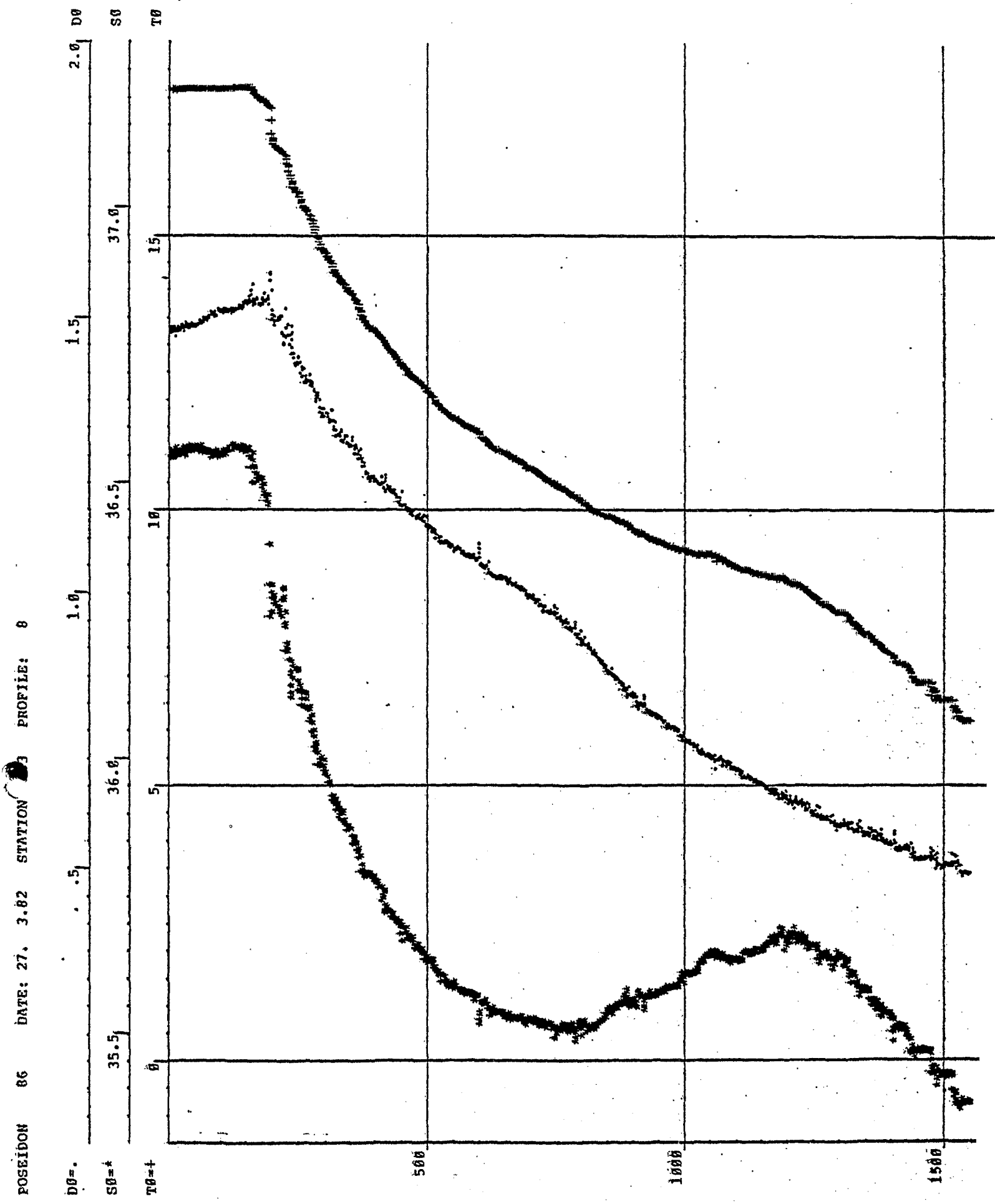
1ØØØ
15ØØ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0
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35.5
15
10
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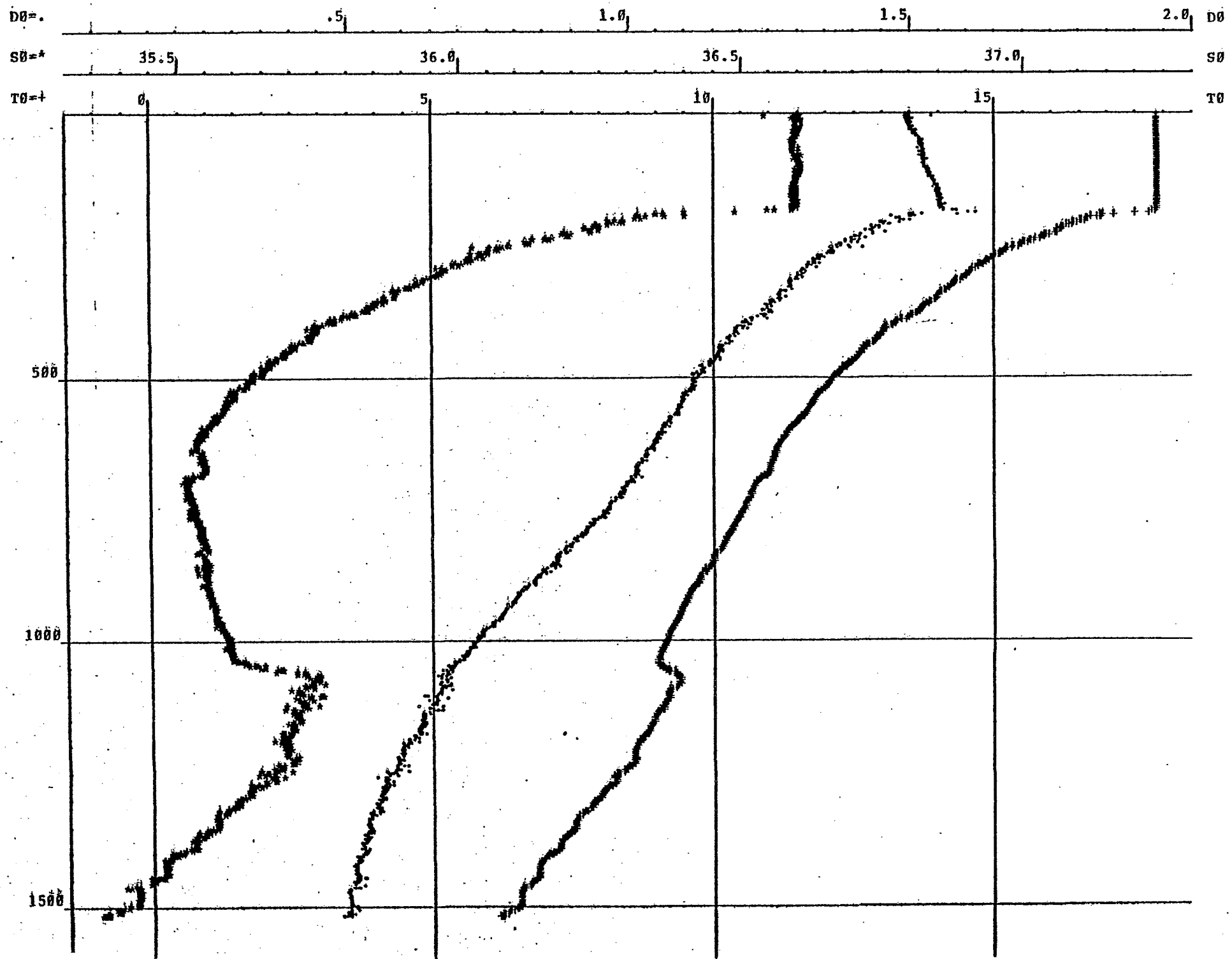
1000
1500

POSEIDON 86 DATE: 27. 3.82 STATION 4 PROFILE: 9



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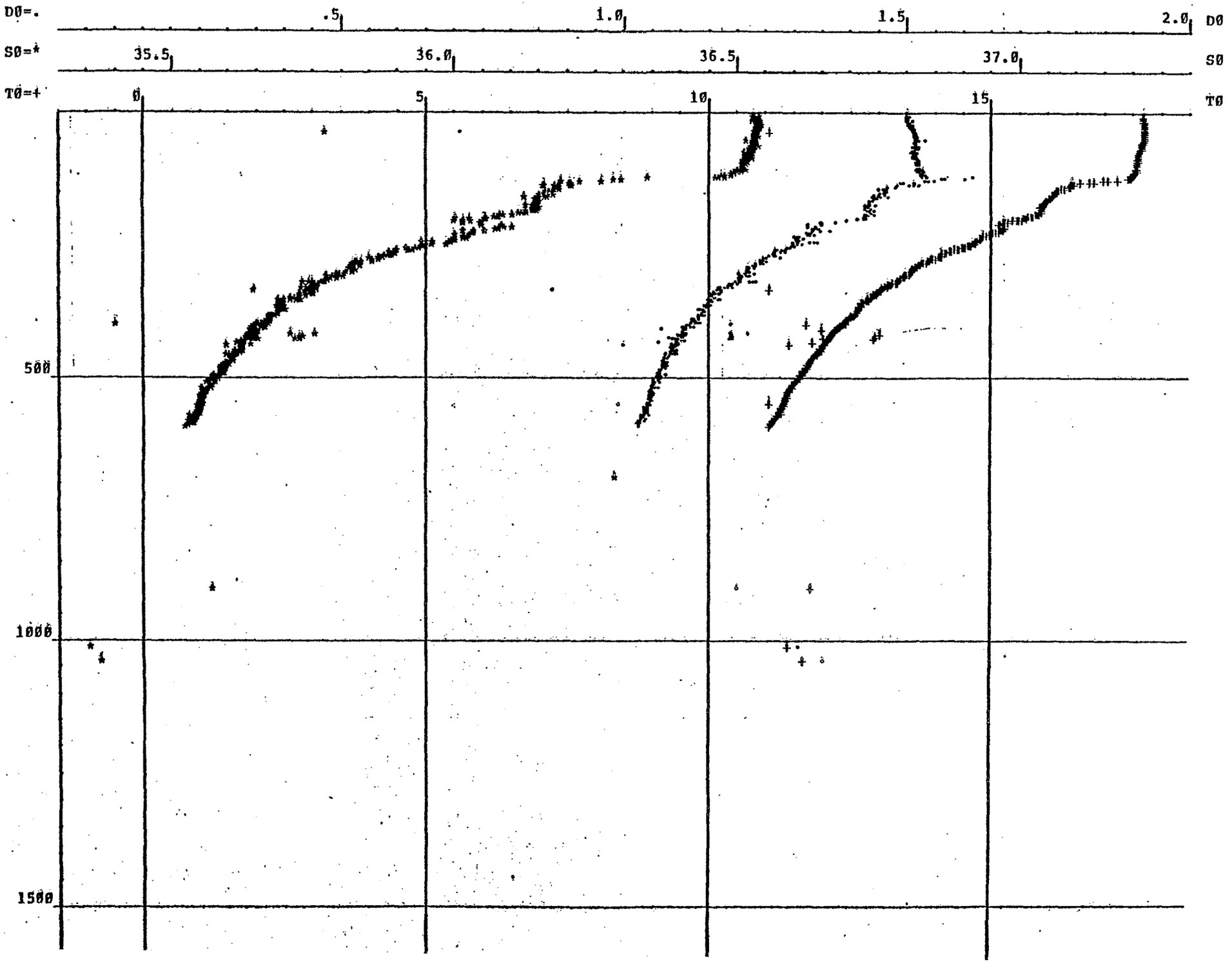

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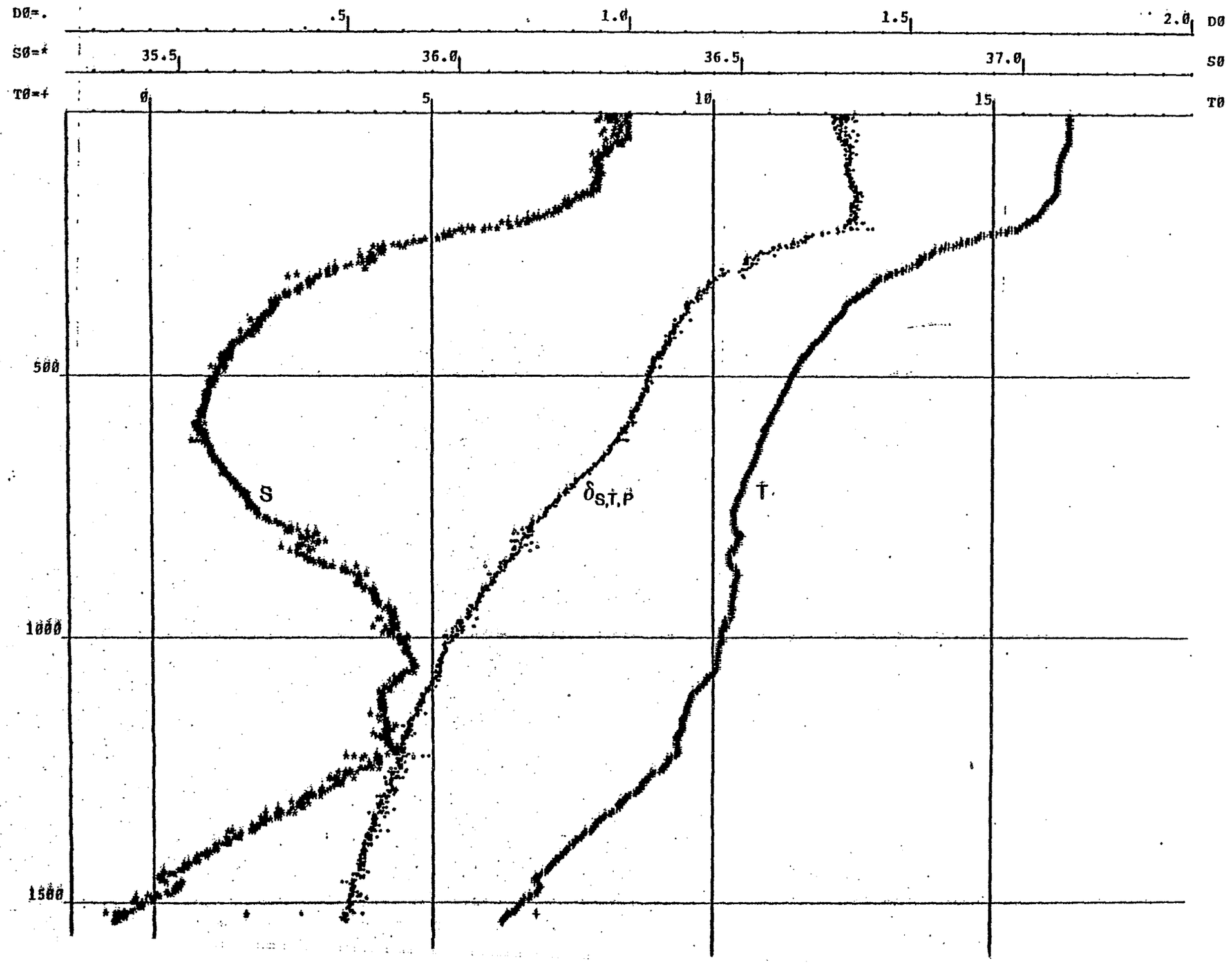

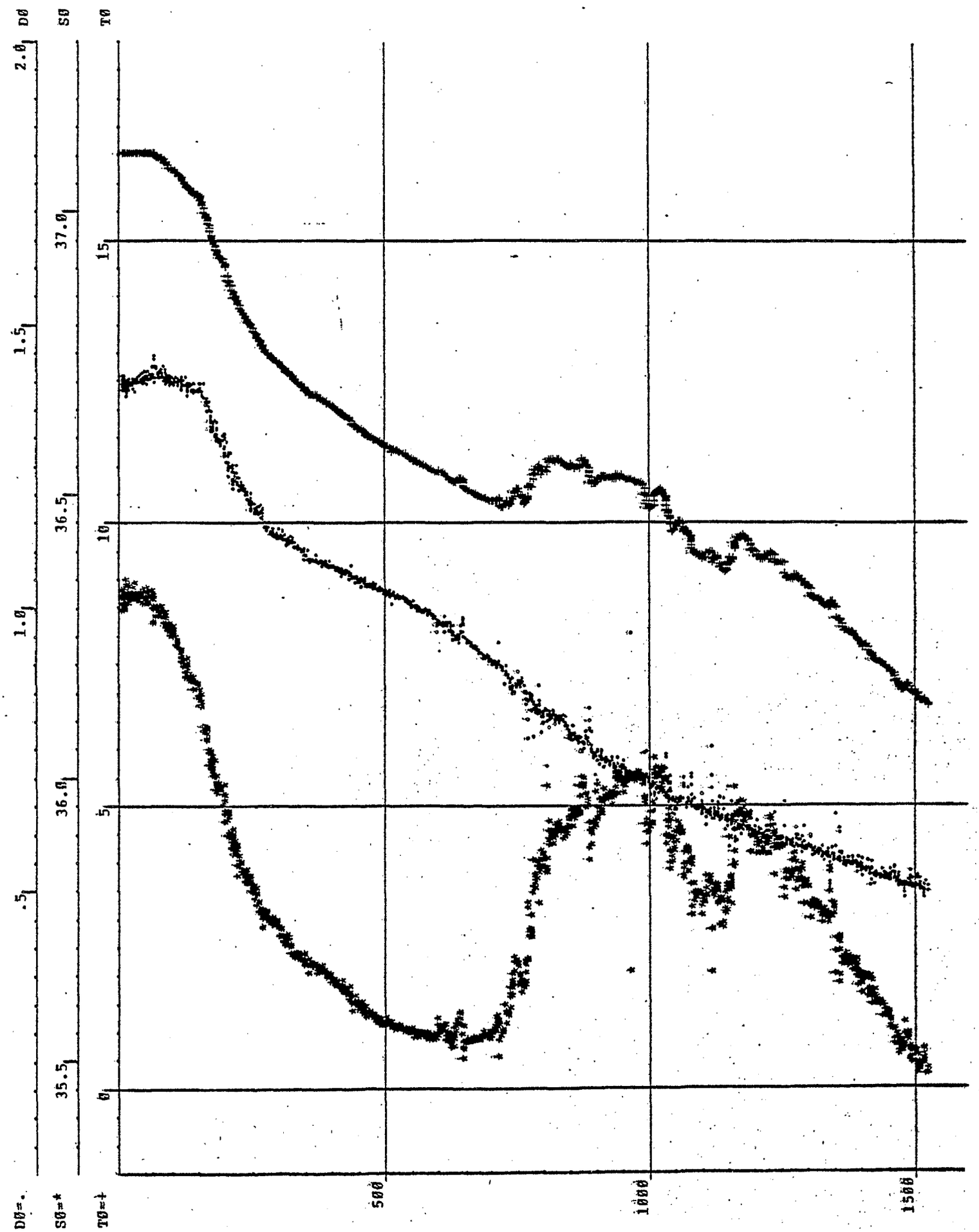
POSEIDON 86 DATE: 28. 3.82 STATION 267 PROFILE: 12
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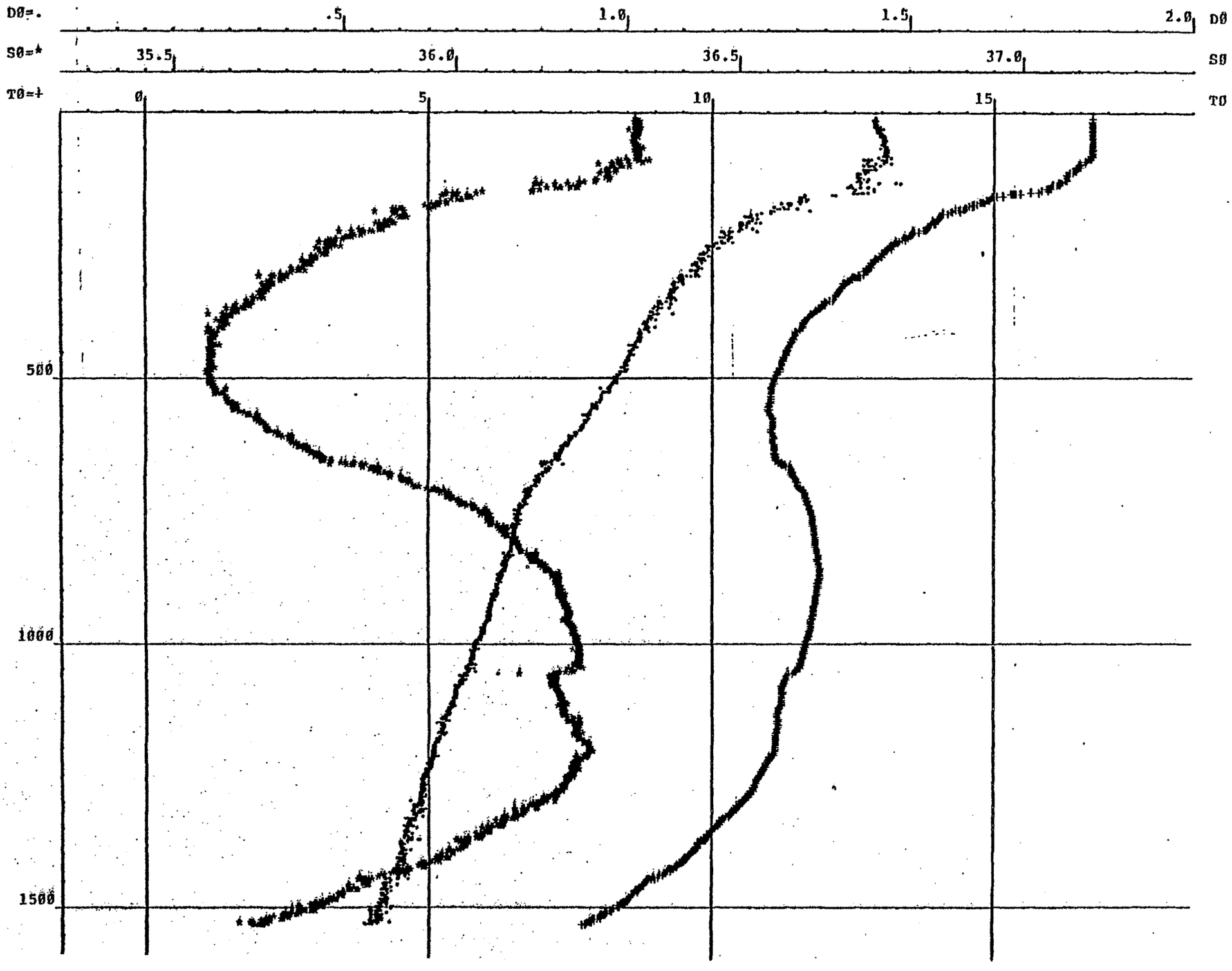
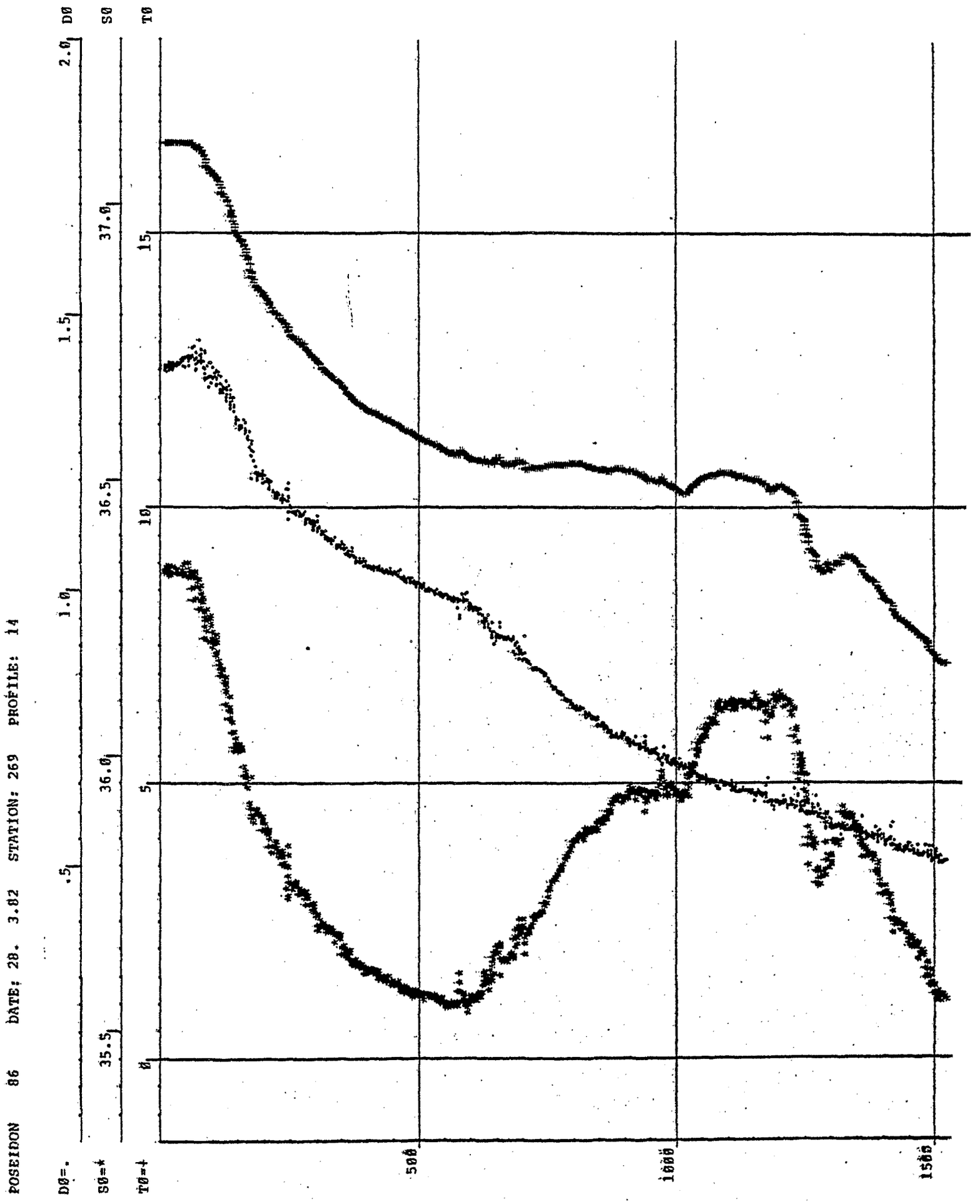
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ

POSEIDON 86 DATE: 28. 3.82 STATION: PROFILE: 13

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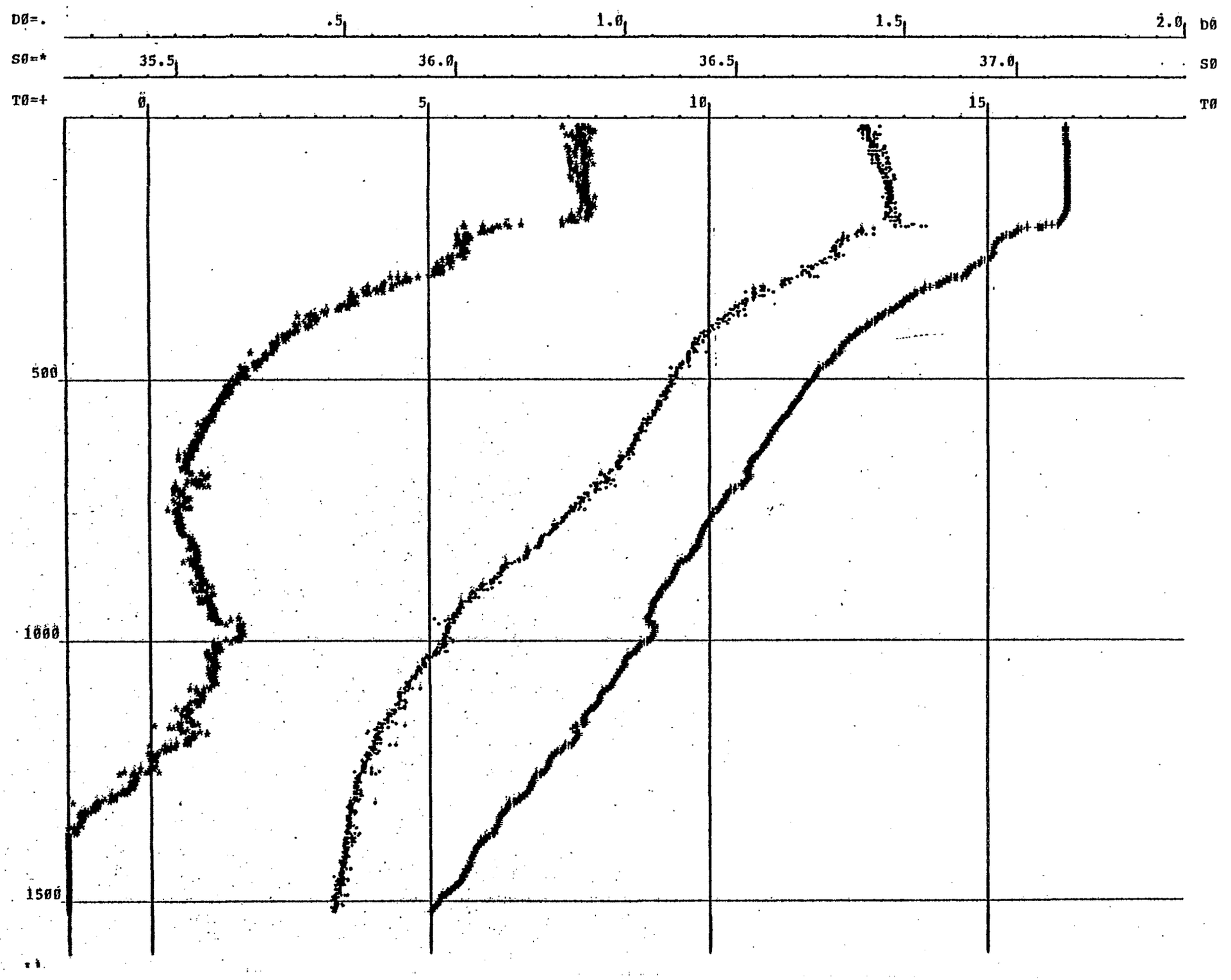
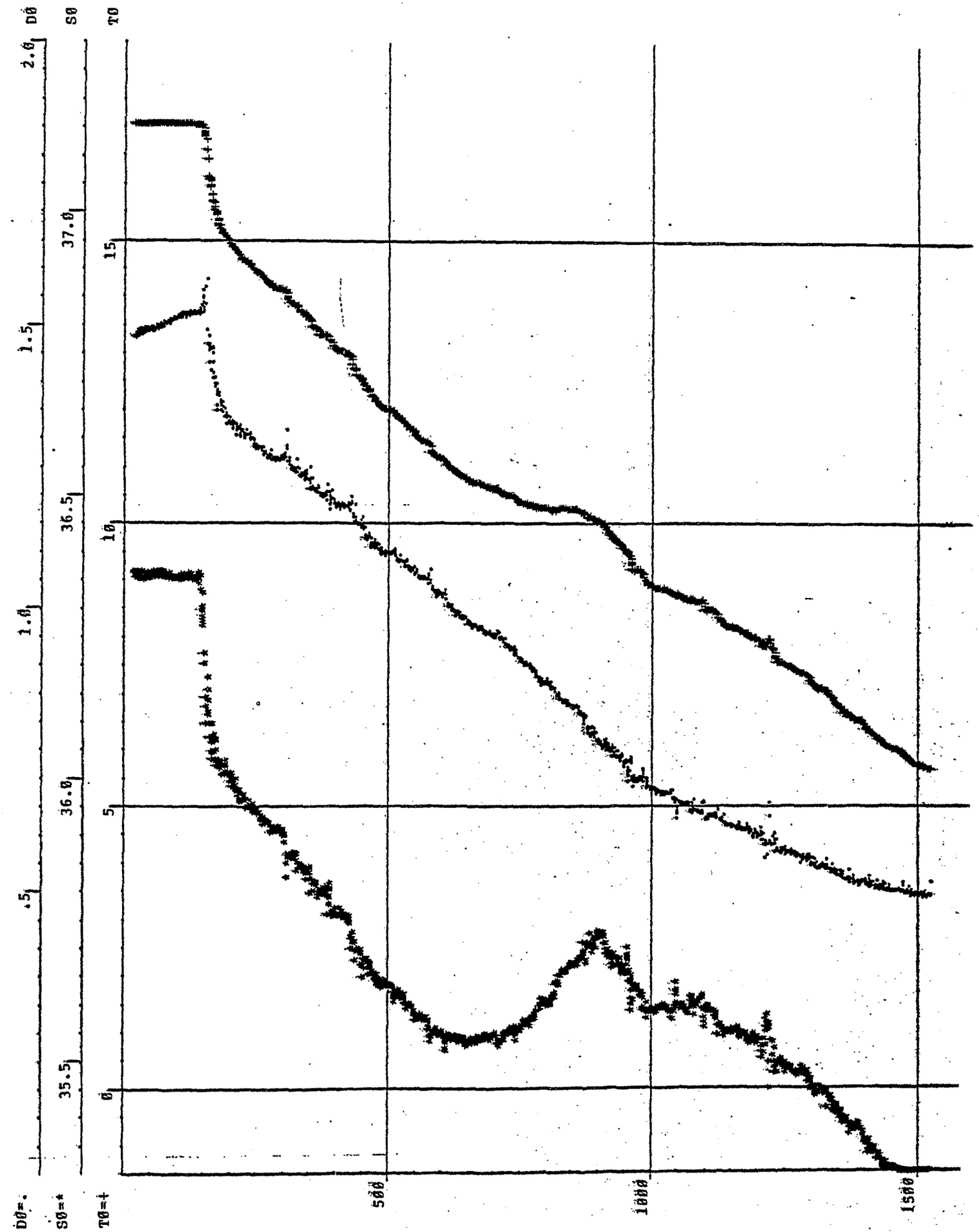
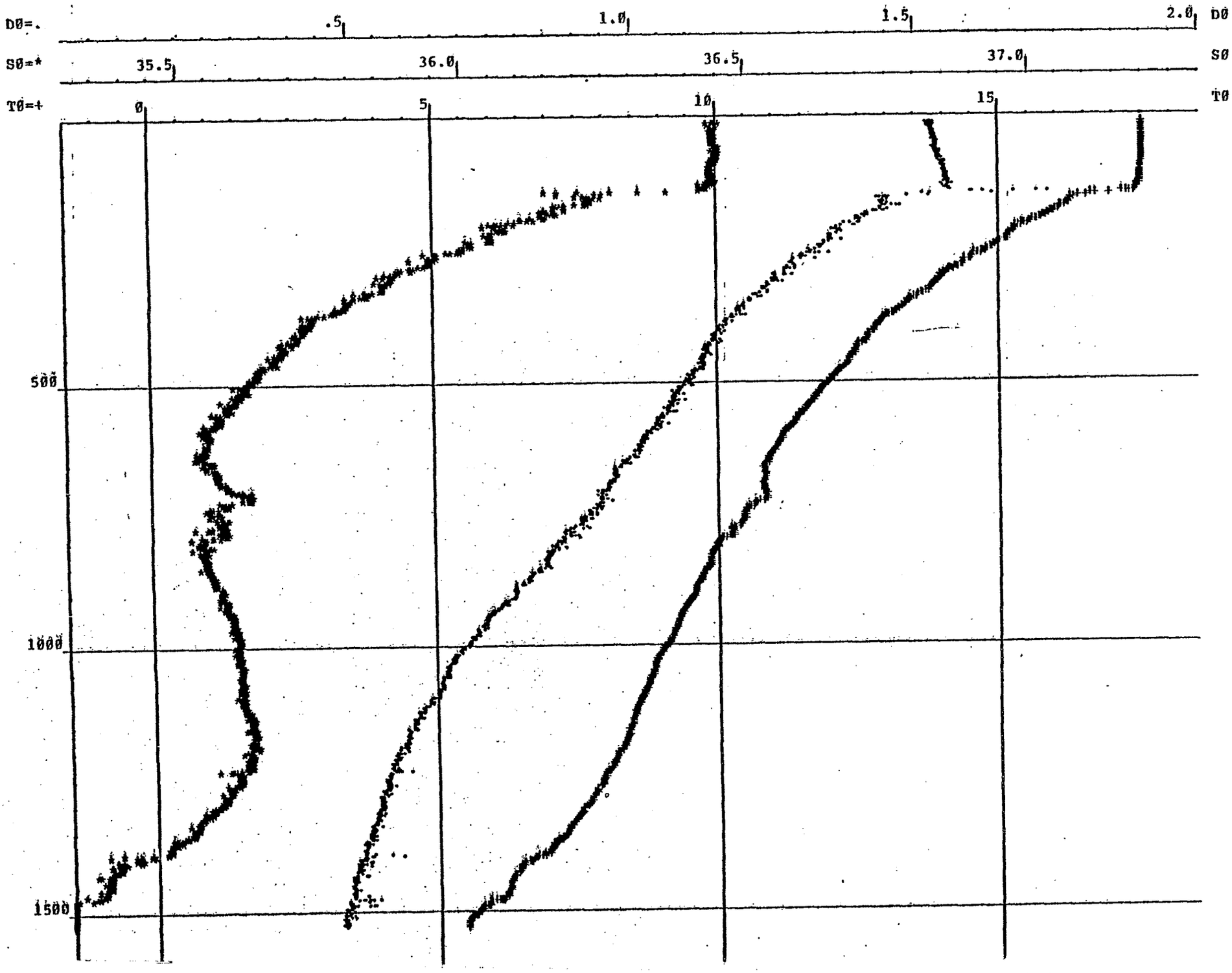
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ

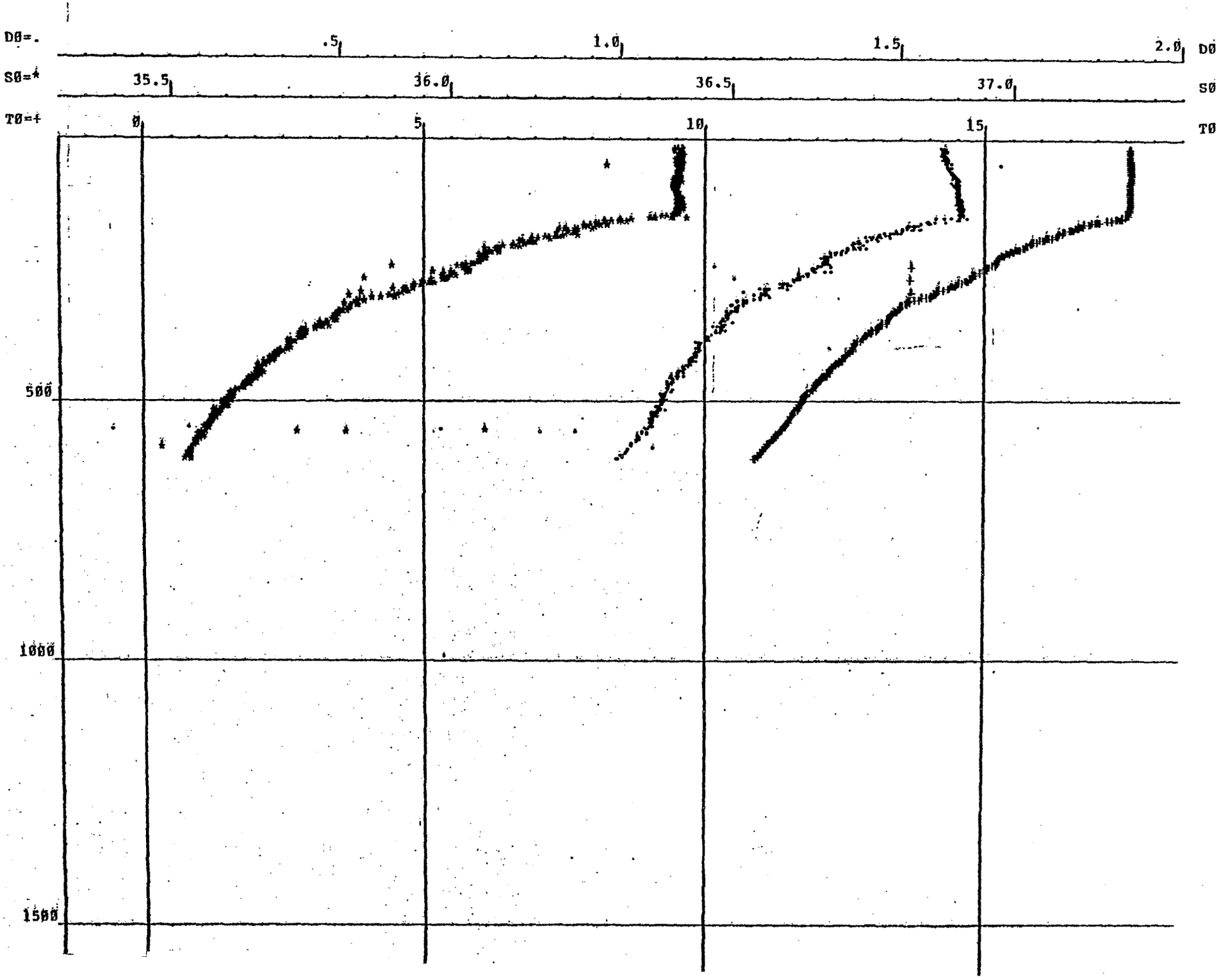

POSEIDON - 86 DATE: 29. 3.82 STATION: 270 PROFILE: 15
DØ=. .5 1.Ø 1.5 2.Ø DØ
SØ=* 35.5 36.Ø 36.5 37.Ø SØ
TØ=+ Ø 5 1Ø 15 TØ
5ØØ
1ØØØ
15ØØ

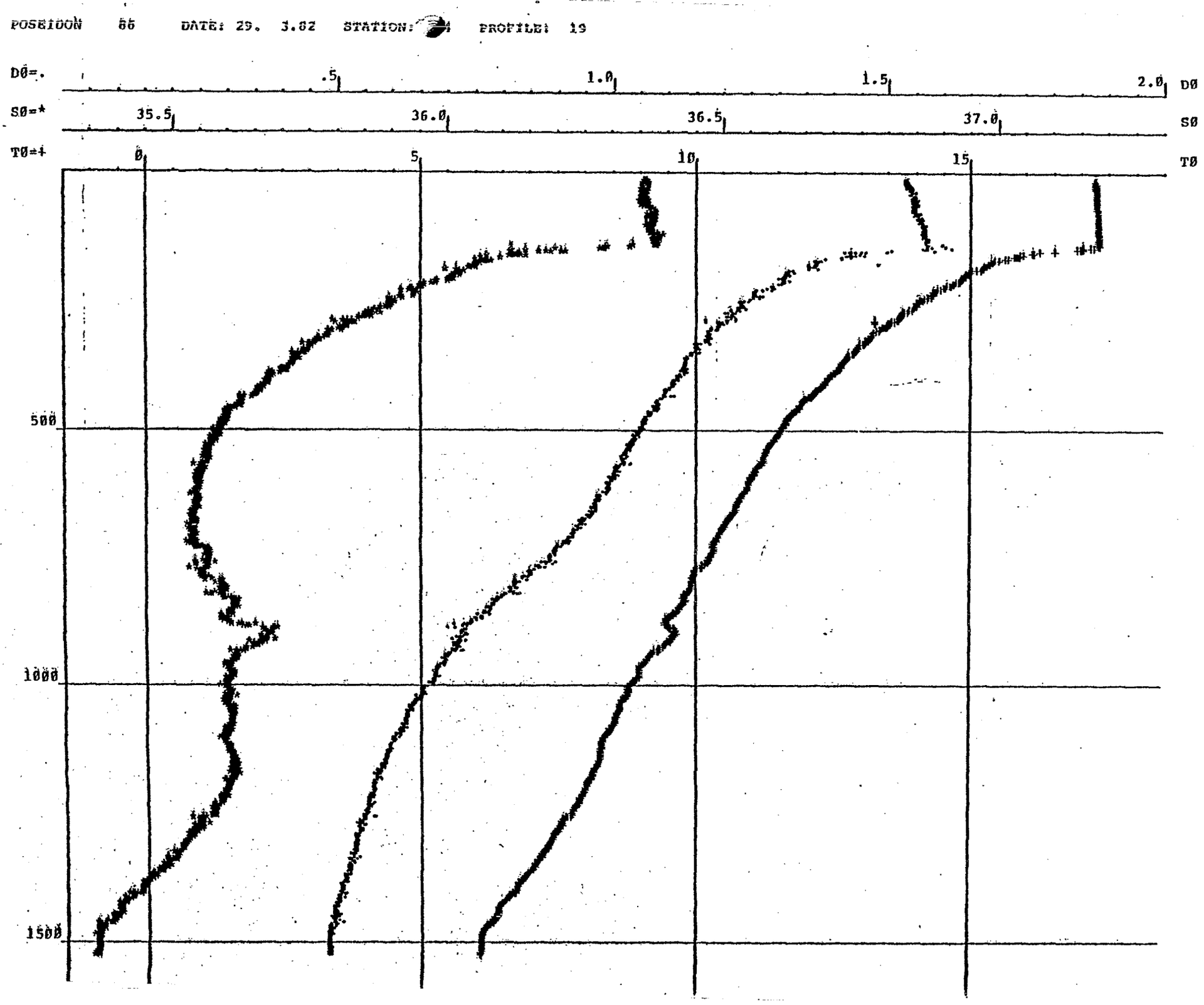

POSEIDON 86 DATE: 29. 3.82 STATION: 1 PROFILE: 16
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ

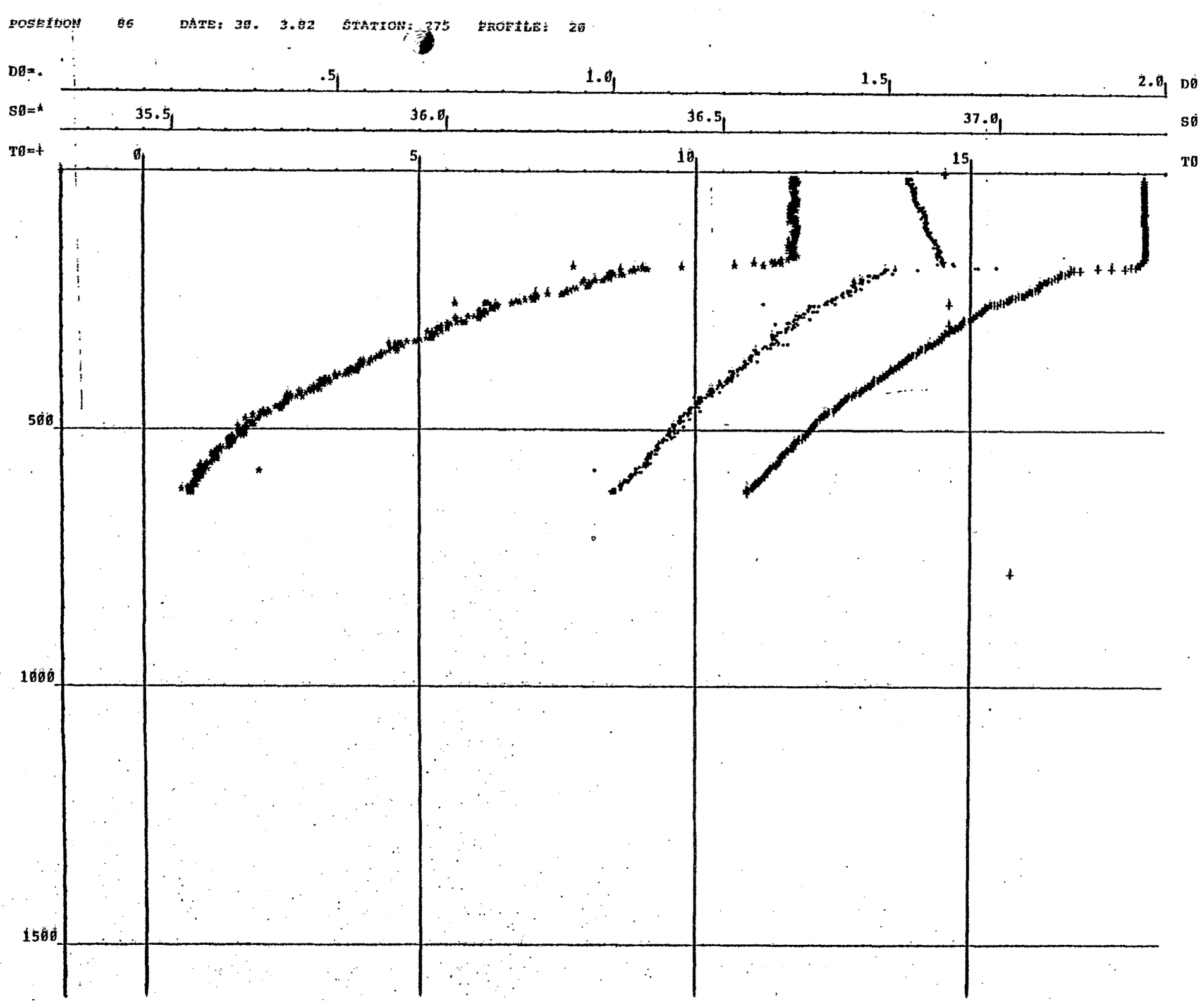
POSEIDON 86 DATE: 29. 3.82 STATION: [redacted] PROFILE: 17



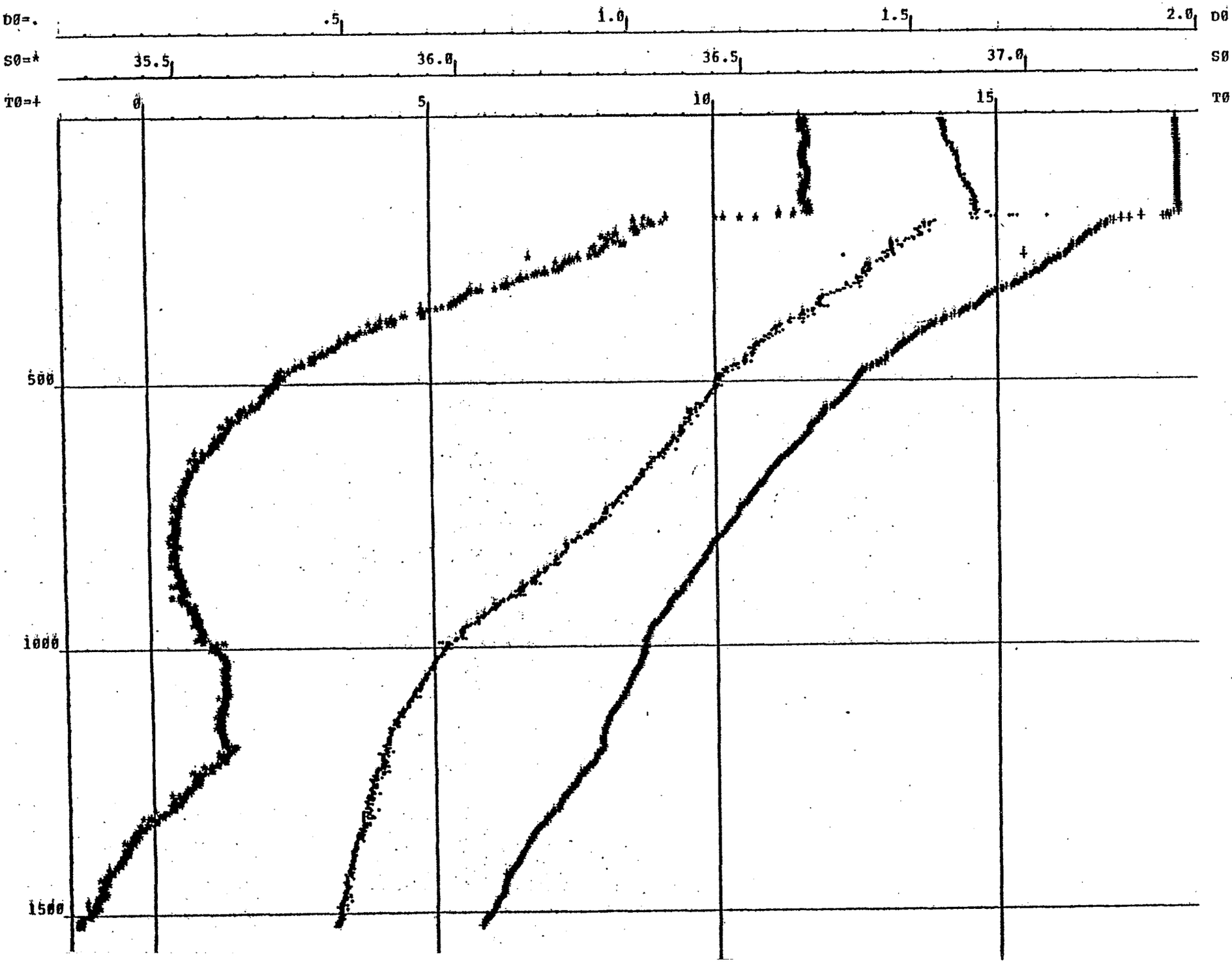
POSEIDON 86 DATE: 29. 3.82 STATION 3 PROFILE: 18

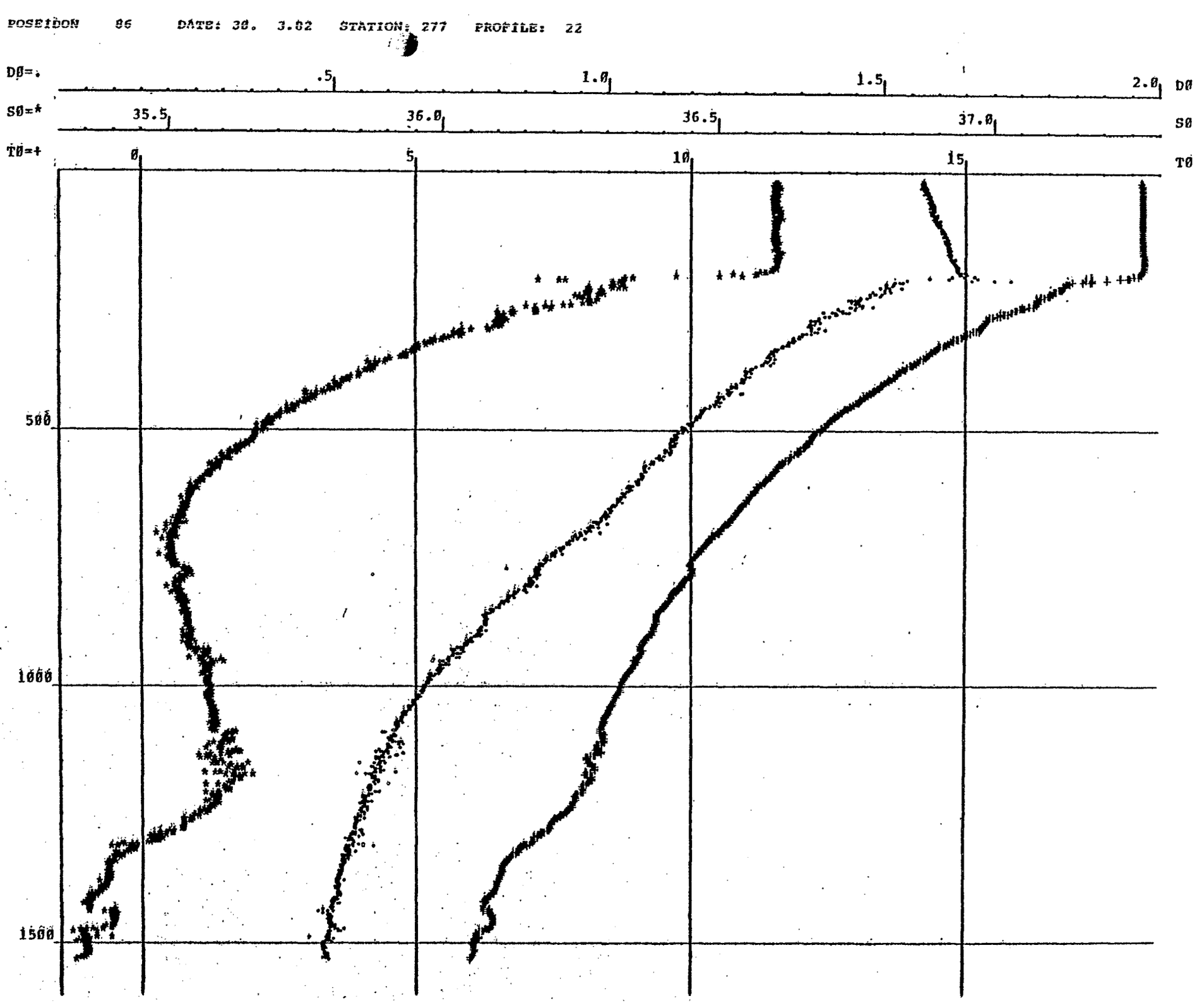


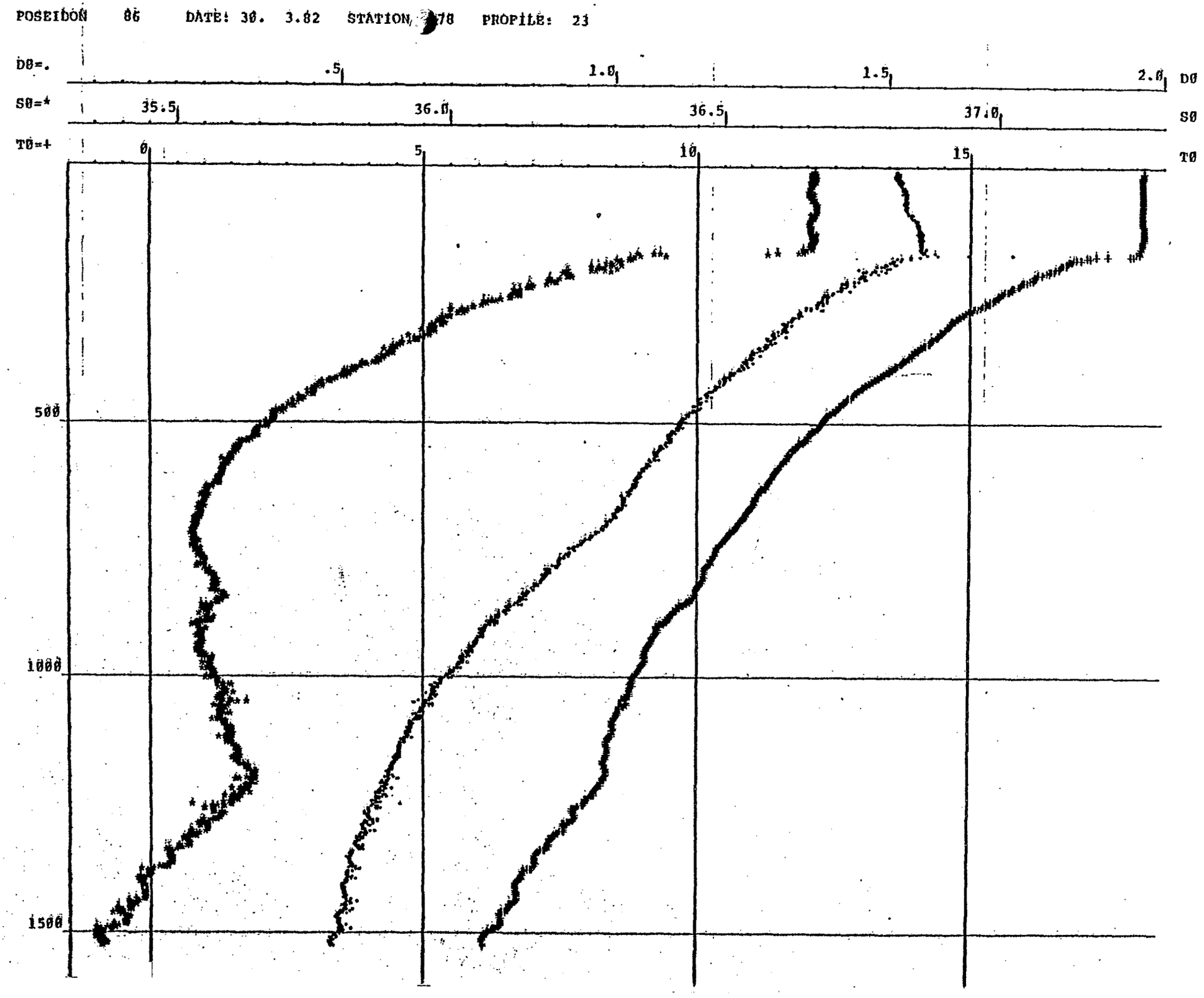

POSEIDON 66 DATE: 29. 3.82 STATION: 4 PROFILE: 19
DØ=.
SØ=*
TØ=+
.5
1.0
1.5
2.0
DØ
35.5
36.0
36.5
37.0
SØ
0
5
10
15
TØ
500
1000
1500

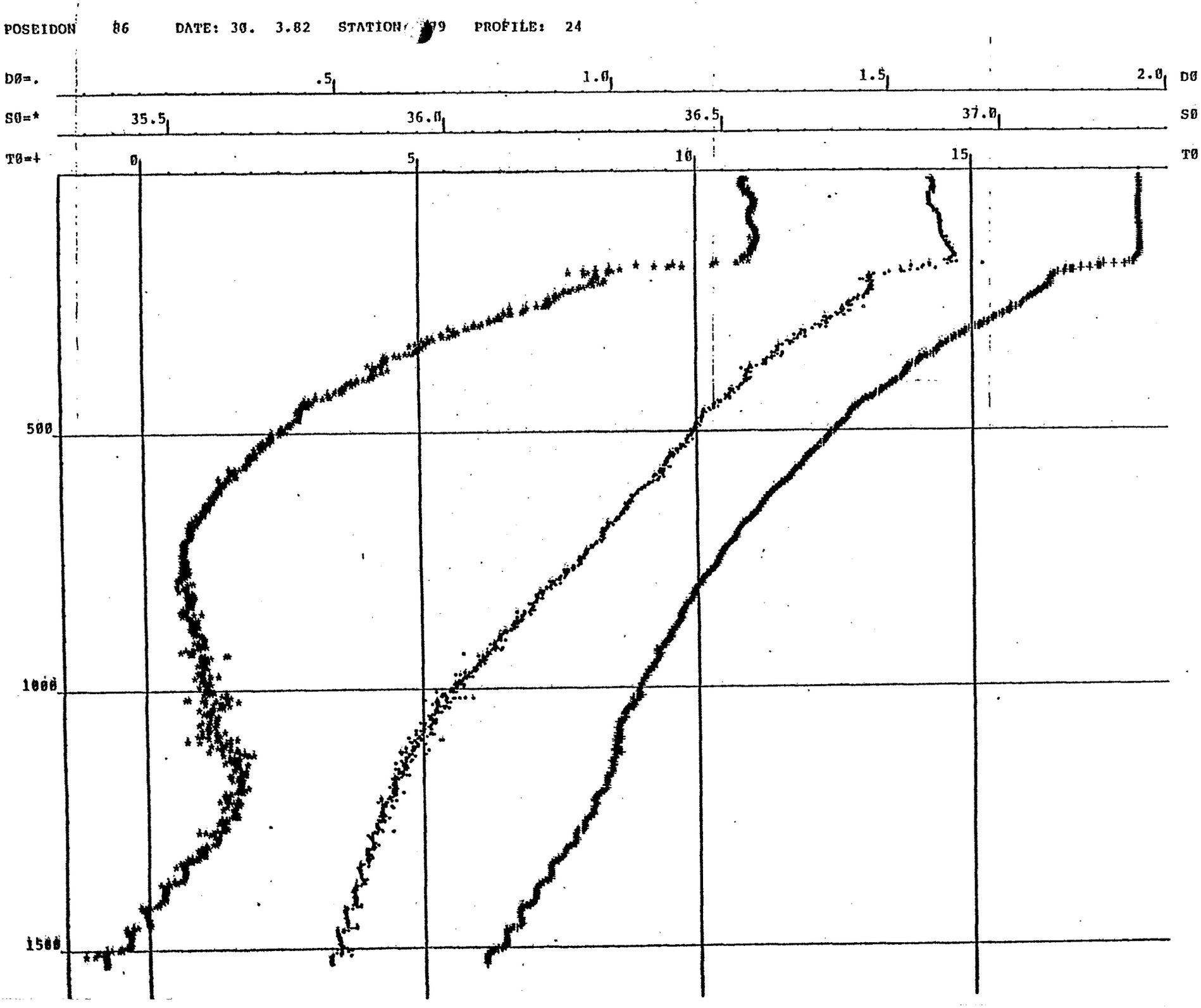

POSEIDON 86 DATE: 30. 3.82 STATION: 275 PROFILE: 20
DØ=.
.5
1.Ø
1.5
2.Ø
DØ
SØ=*
35.5
36.Ø
36.5
37.Ø
SØ
TØ=+
Ø
5
1Ø
15
TØ
5ØØ
1ØØØ
15ØØ

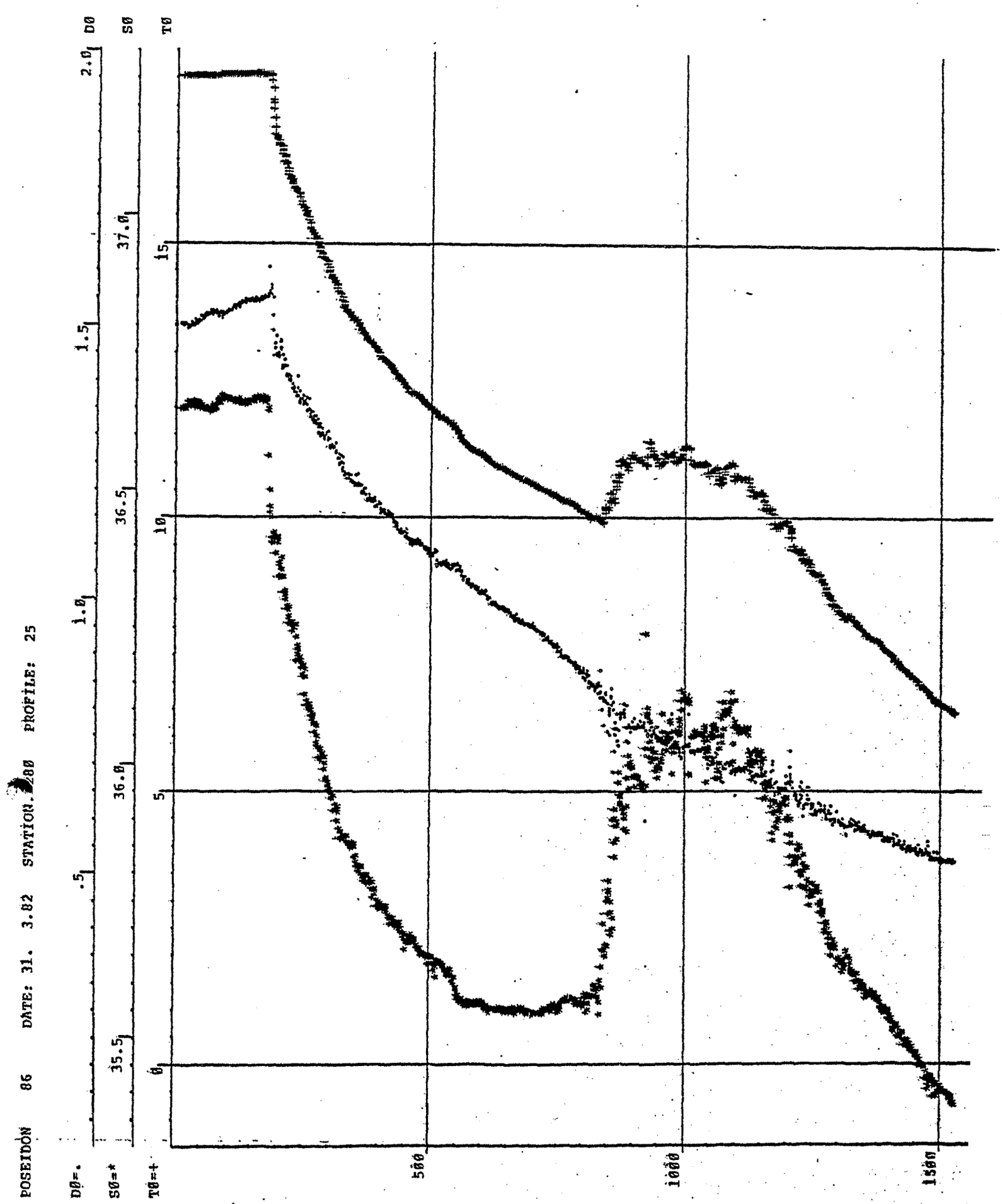
POSEIDON 86 . DATE: 30. 3.82 STATION 276 PROFILE: 21

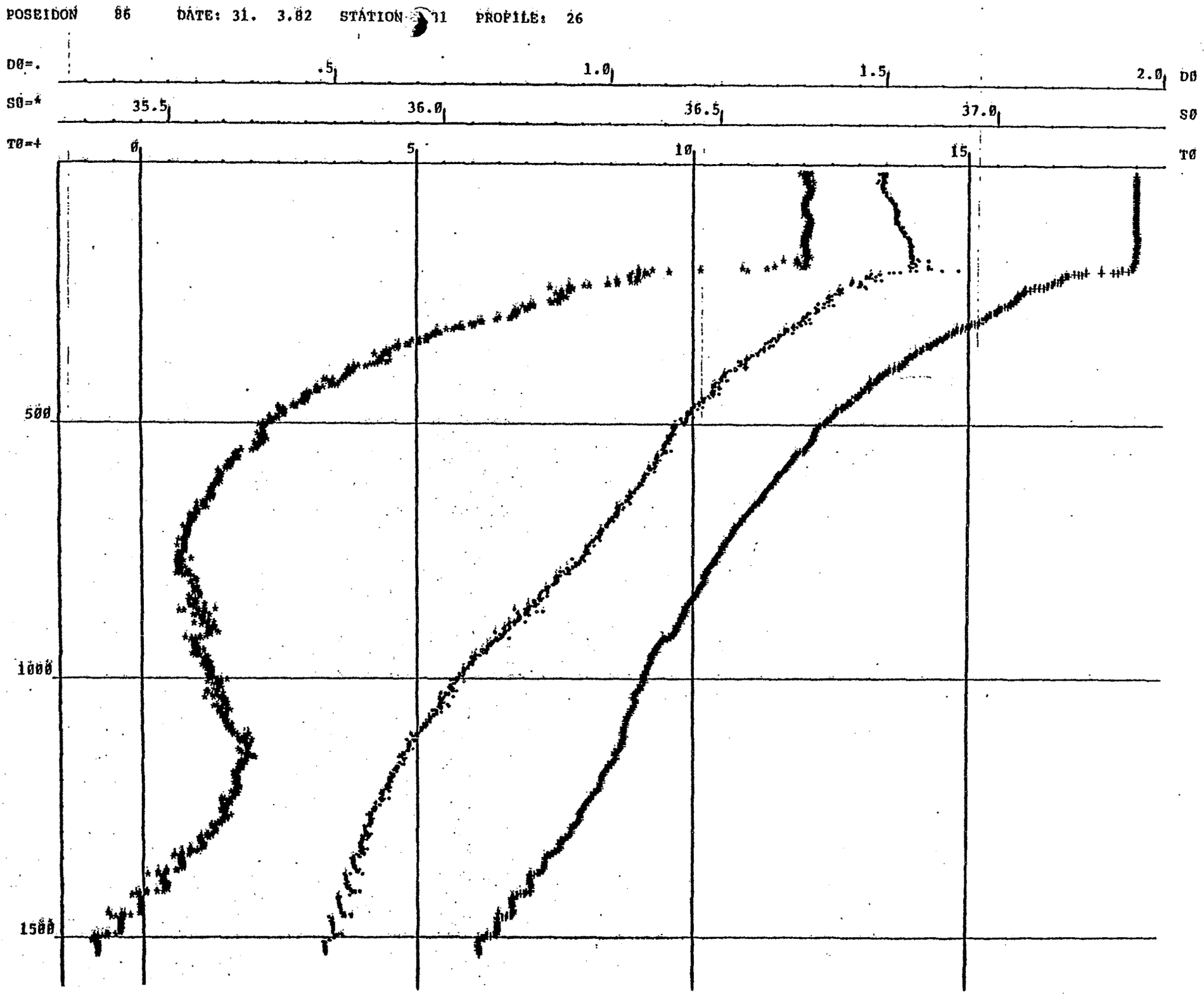


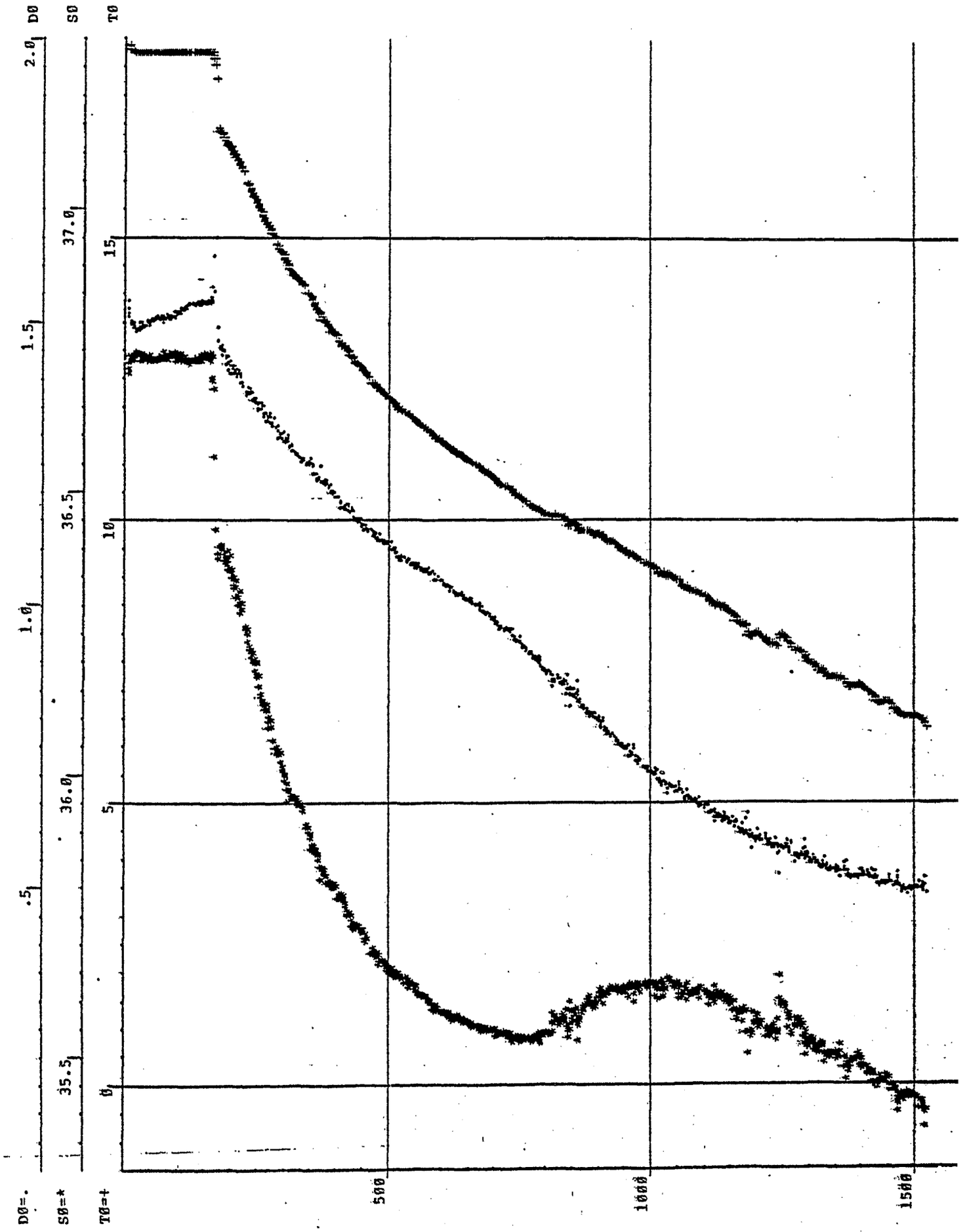

POSEIDON 86 DATE: 30. 3.82 STATION: 277 PROFILE: 22
DØ=.
.5
1.Ø
1.5
2.Ø
DØ
SØ=*
35.5
36.Ø
36.5
37.Ø
SØ
TØ=+
Ø
5
1Ø
15
TØ
5ØØ
1ØØØ
15ØØ

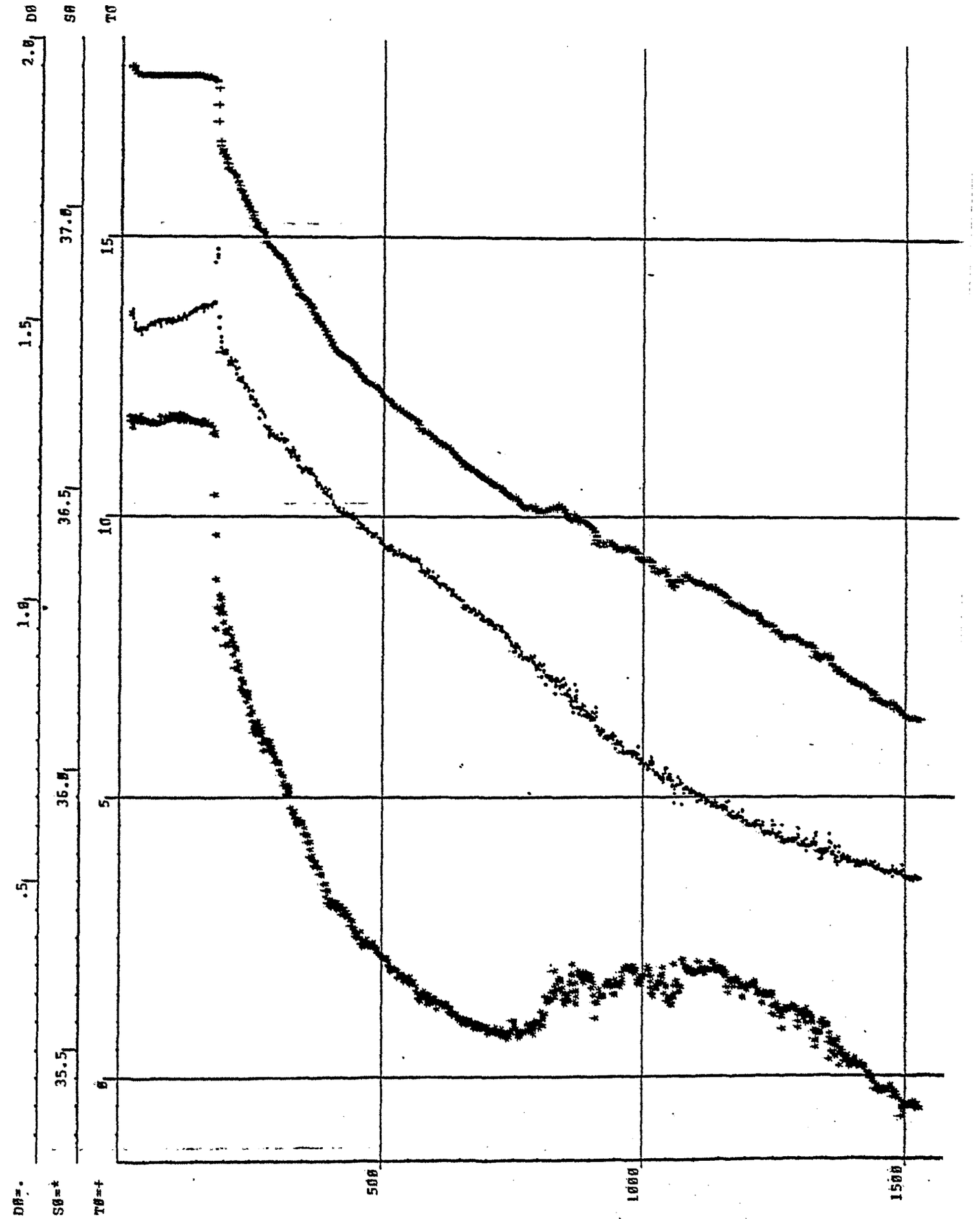

POSEIDON 86 DATE: 30. 3.82 STATION 278 PROFILE: 23
DØ=.
.5
1.0
1.5
2.0
DØ
SØ=*
35.5
36.0
36.5
37.0
SØ
TØ=+
Ø
5
10
15
TØ
500
1000
1500

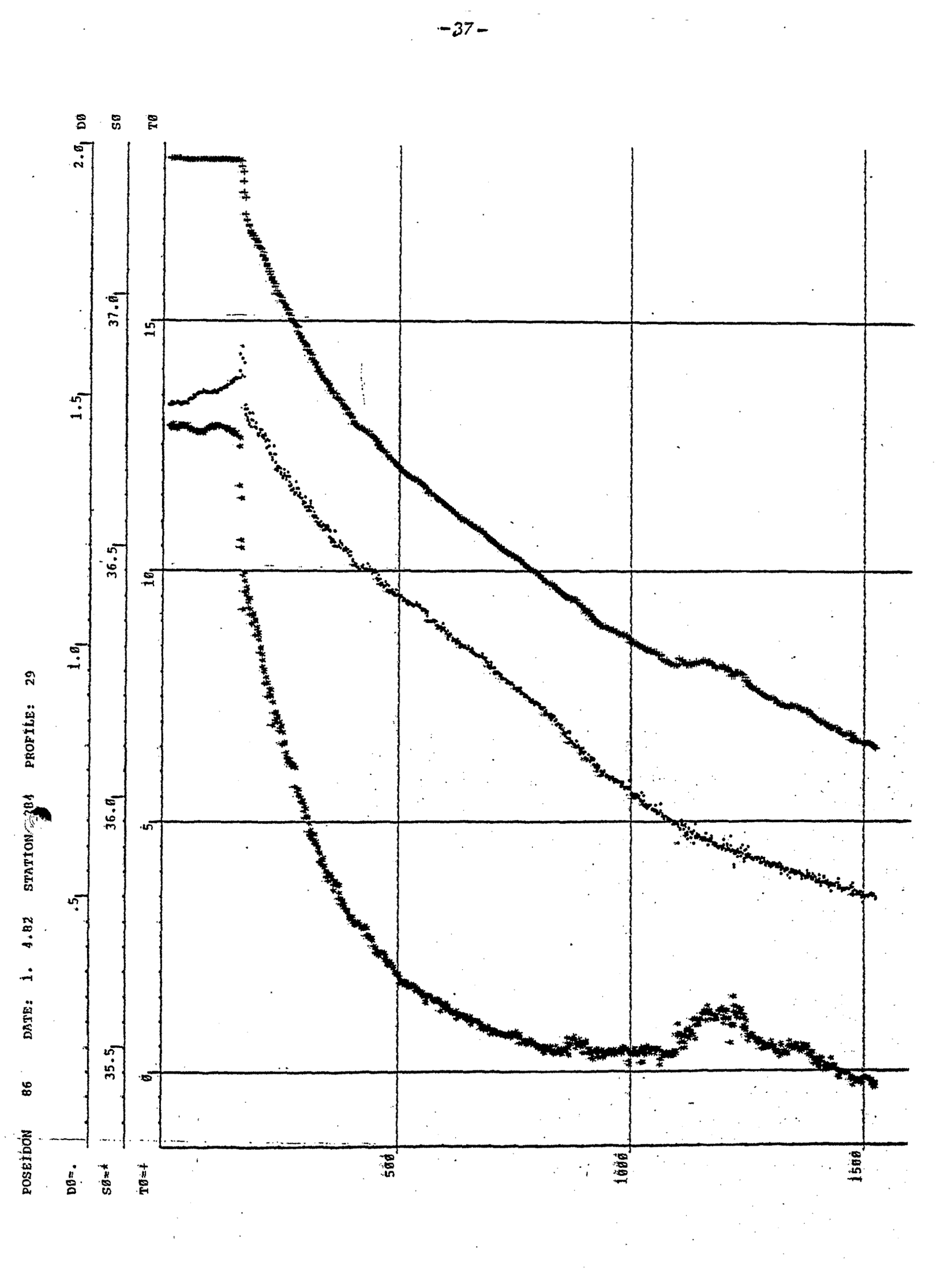

POSEIDON 86 DATE: 30. 3.82 STATION: 79 PROFILE: 24
DØ=. .5 1.0 1.5 2.0 DØ
SØ=* 35.5 36.0 36.5 37.0 SØ
TØ=+ 0 5 10 15 TØ
500
1000
1500


POSEIDON 86 DATE: 31. 3.82 STATION: 280 PROFILE: 25
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
10
5
Ø
500
1000
1500

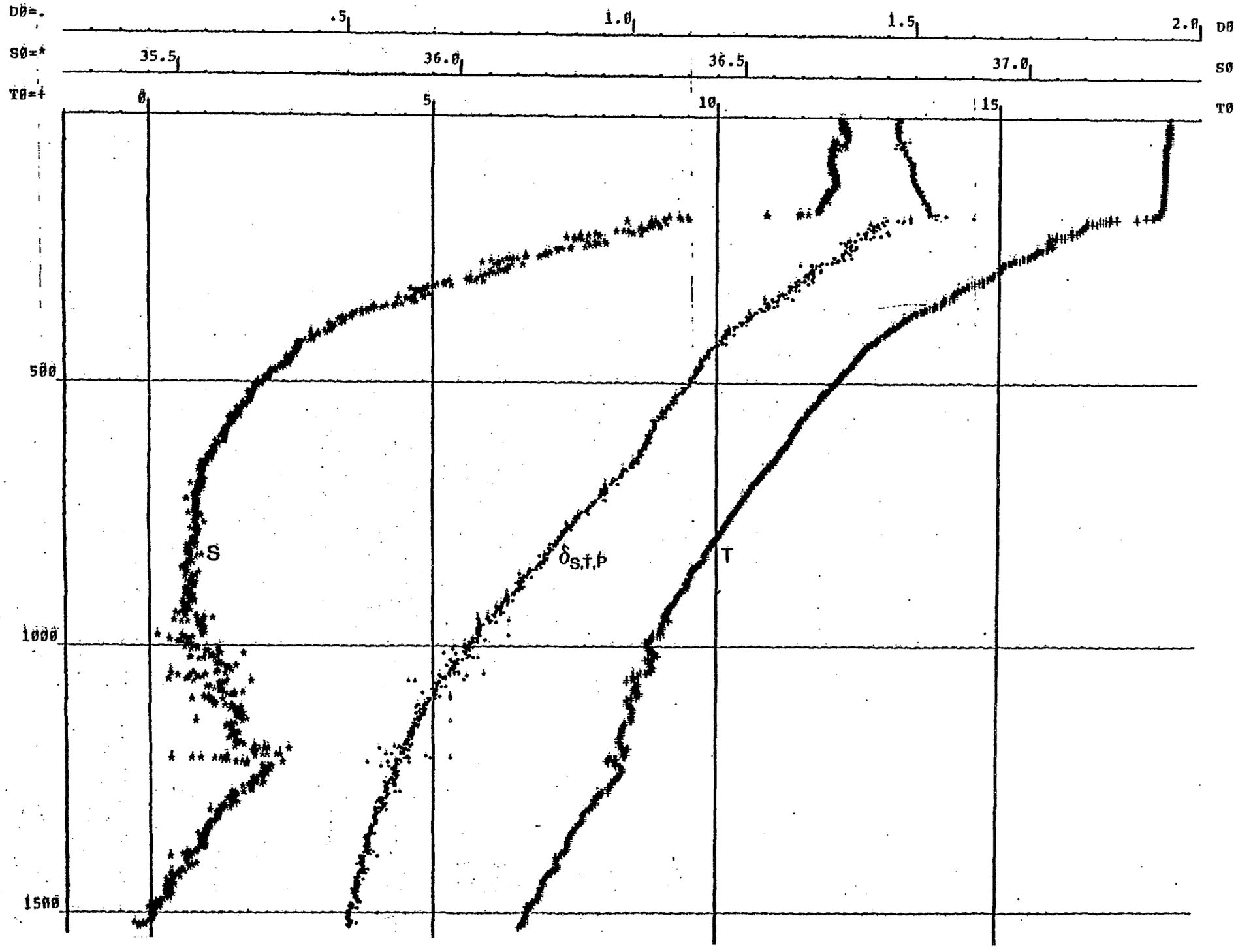

POSEIDON 86 DATE: 31. 3.82 STATION 11 PROFILE: 26
DØ=.
.5
1.0
1.5
2.0
DØ
SØ=*
35.5
36.0
36.5
37.0
SØ
TØ=+
Ø
5
10
15
TØ
500
1000
1500

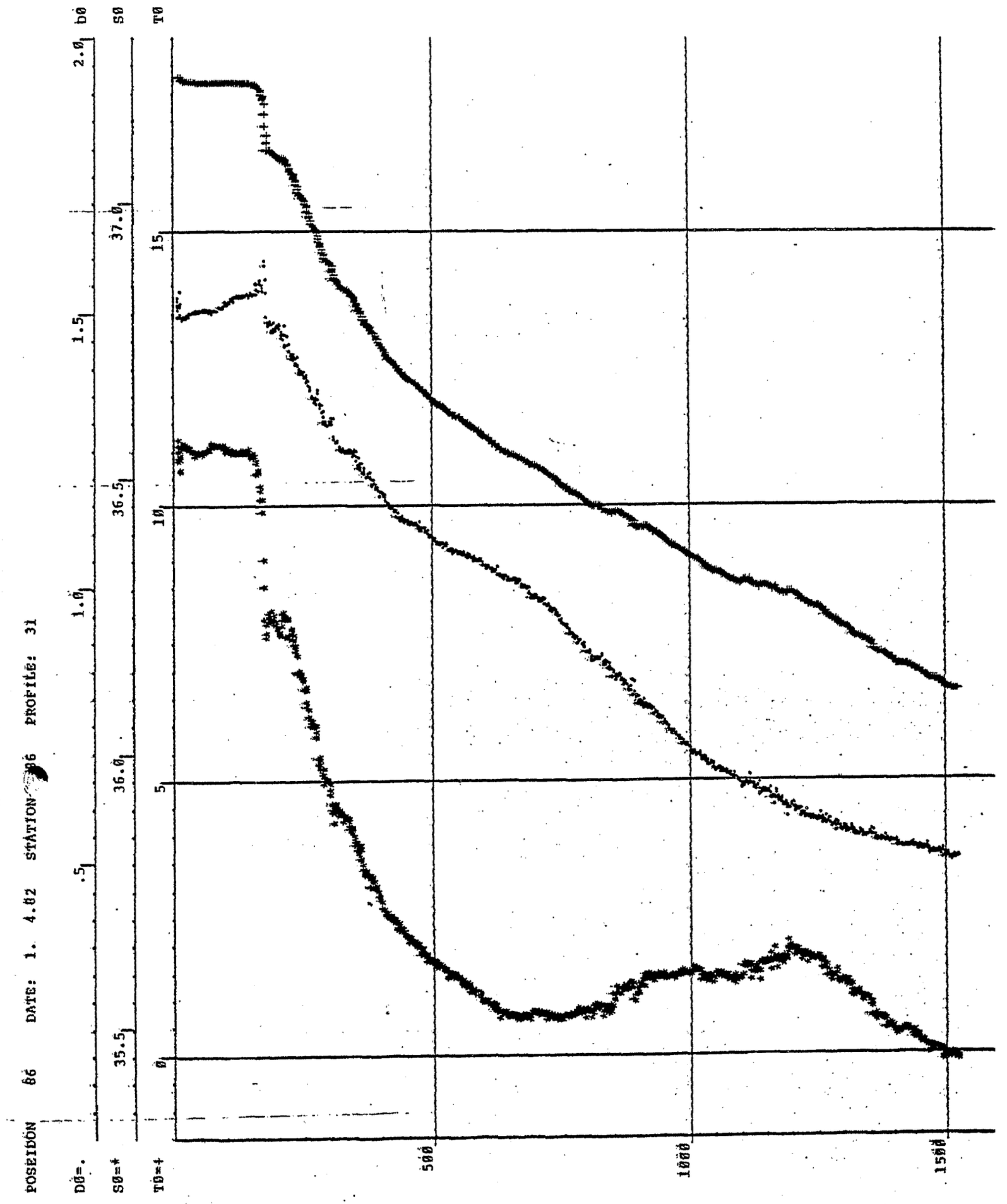

POSEIDON 86 DATE: 31. 3.82 STATIO. 202 PROFILE: 27
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ


POSEIDON 86 DATE: 31. 3.82 STATION: PROFILE: 28
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
37.Ø
36.5
36.Ø
35.5
15
10
5
Ø
5ØØ
1ØØØ
15ØØ

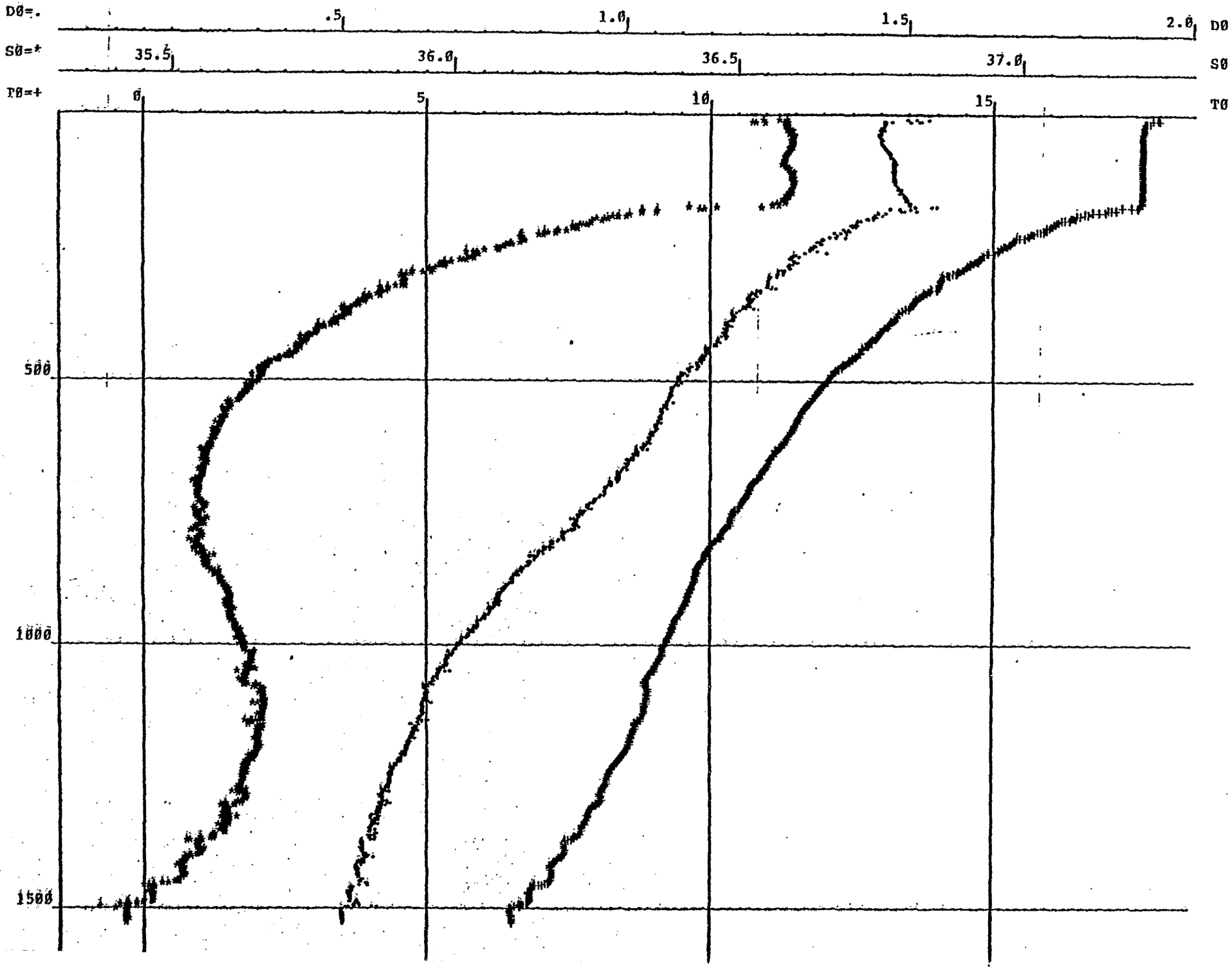

POSEIDON 86 DATE: 1. 4.82 STATION 284 PROFILE: 29
DØ=.
SØ=+
TØ=+
DØ
SØ
TØ
.5
1.Ø
1.5
2.Ø
35.5
36.Ø
36.5
37.Ø
Ø
5
1Ø
15
5ØØ
1ØØØ
15ØØ

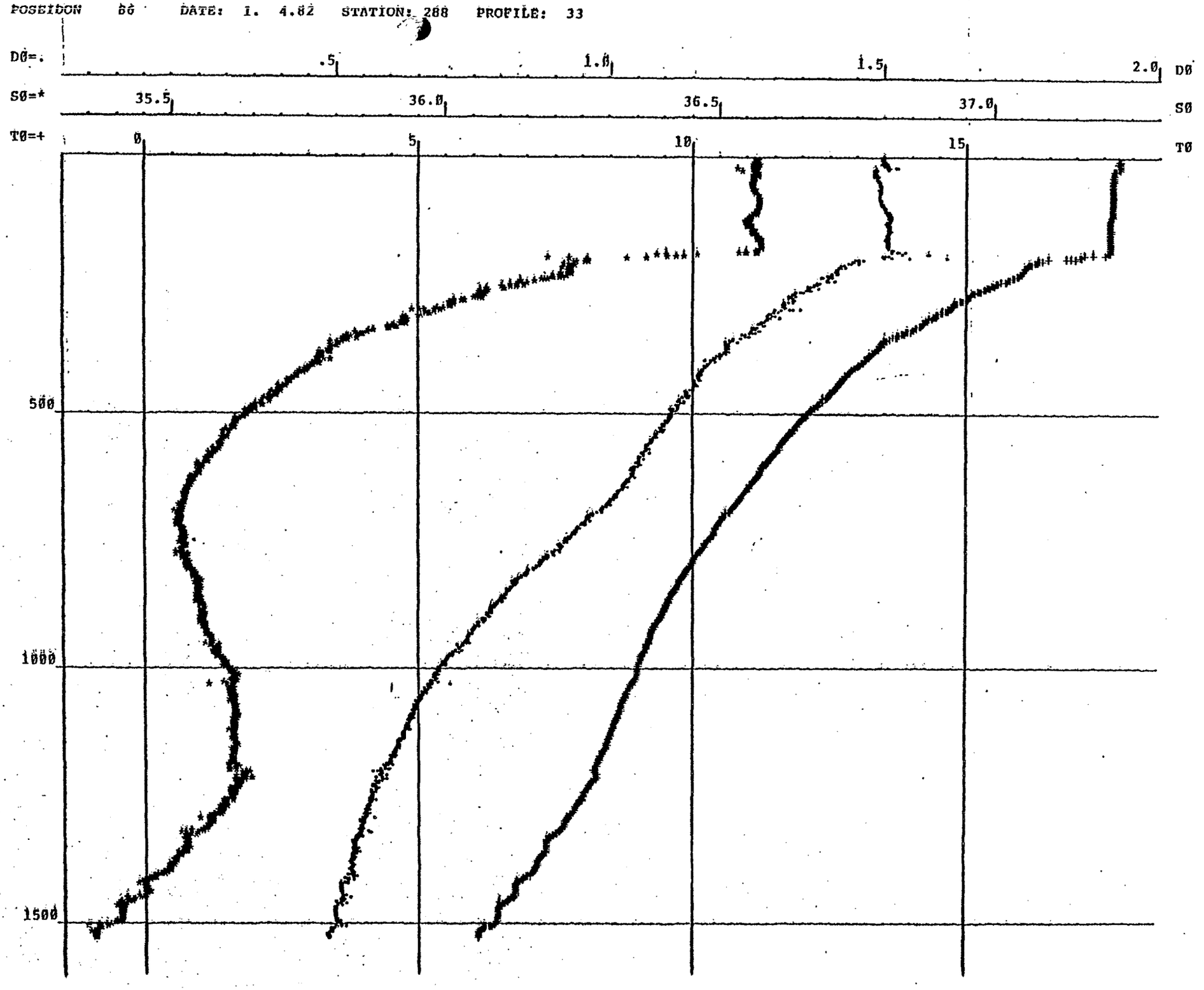
POSEIDON 86 DATE: 1. 4.82 STATION: 285 PROFILE: 30

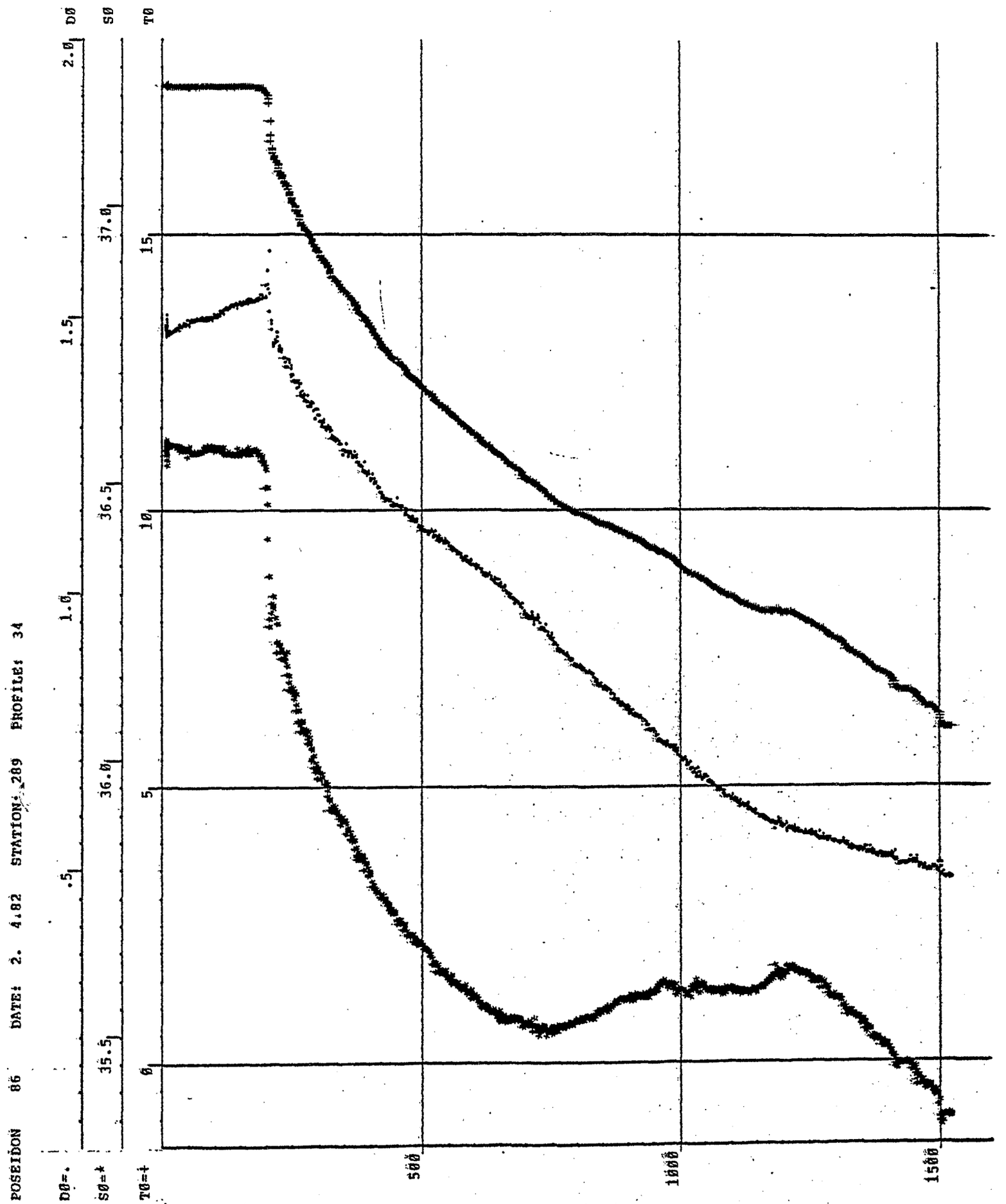


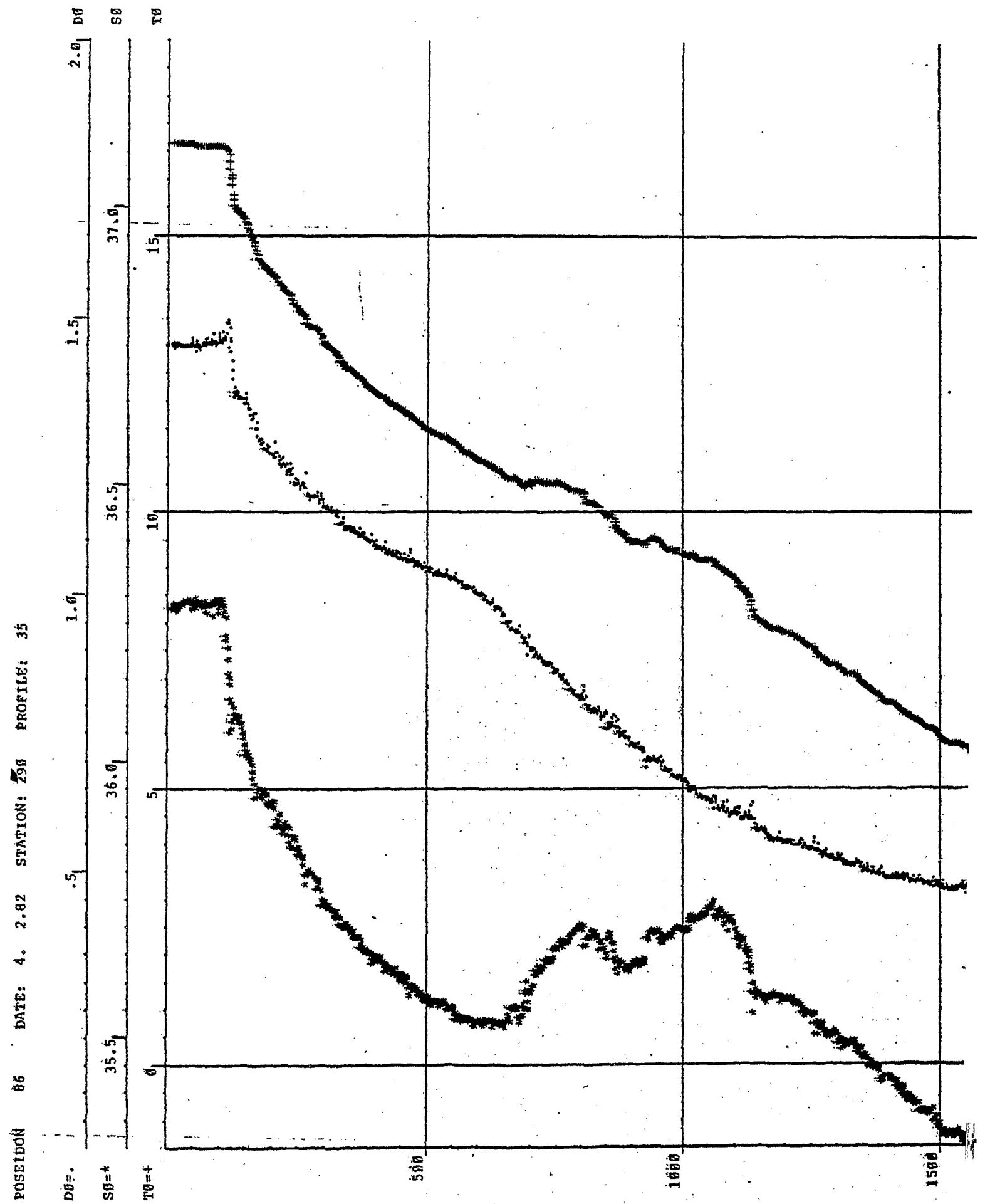

POSEIDON 86 DATE: 1. 4.82 STATION 206 PROFILE: 31
D0=.
S0=*
T0=+
D0
S0
T0
2.0
1.5
1.0
.5
0
37.0
36.5
36.0
35.5
15
10
5
0
5000
10000
15000

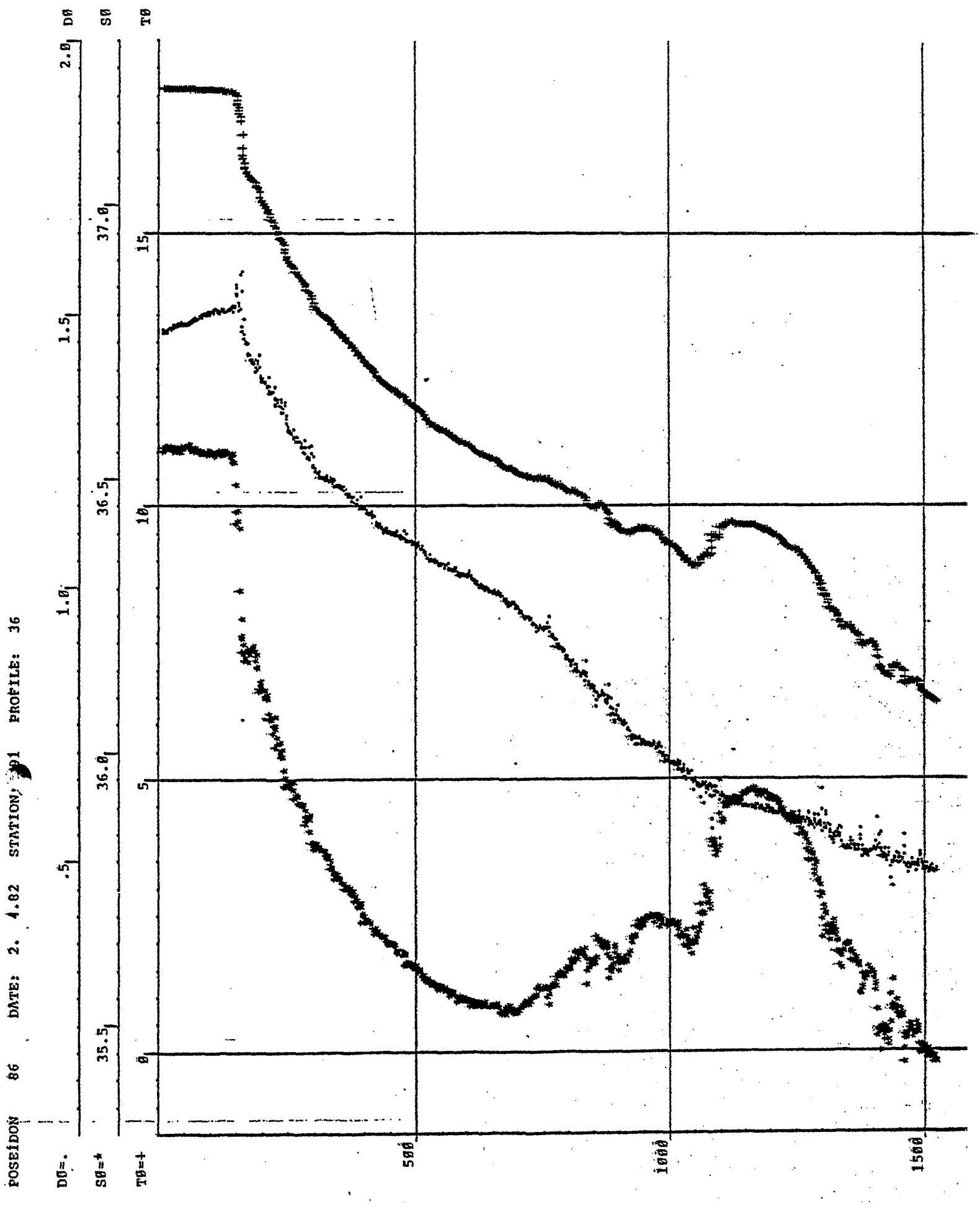
POSEIDON 86 DATE: 1. 4.82 STATION: 7 PROFILE: 32

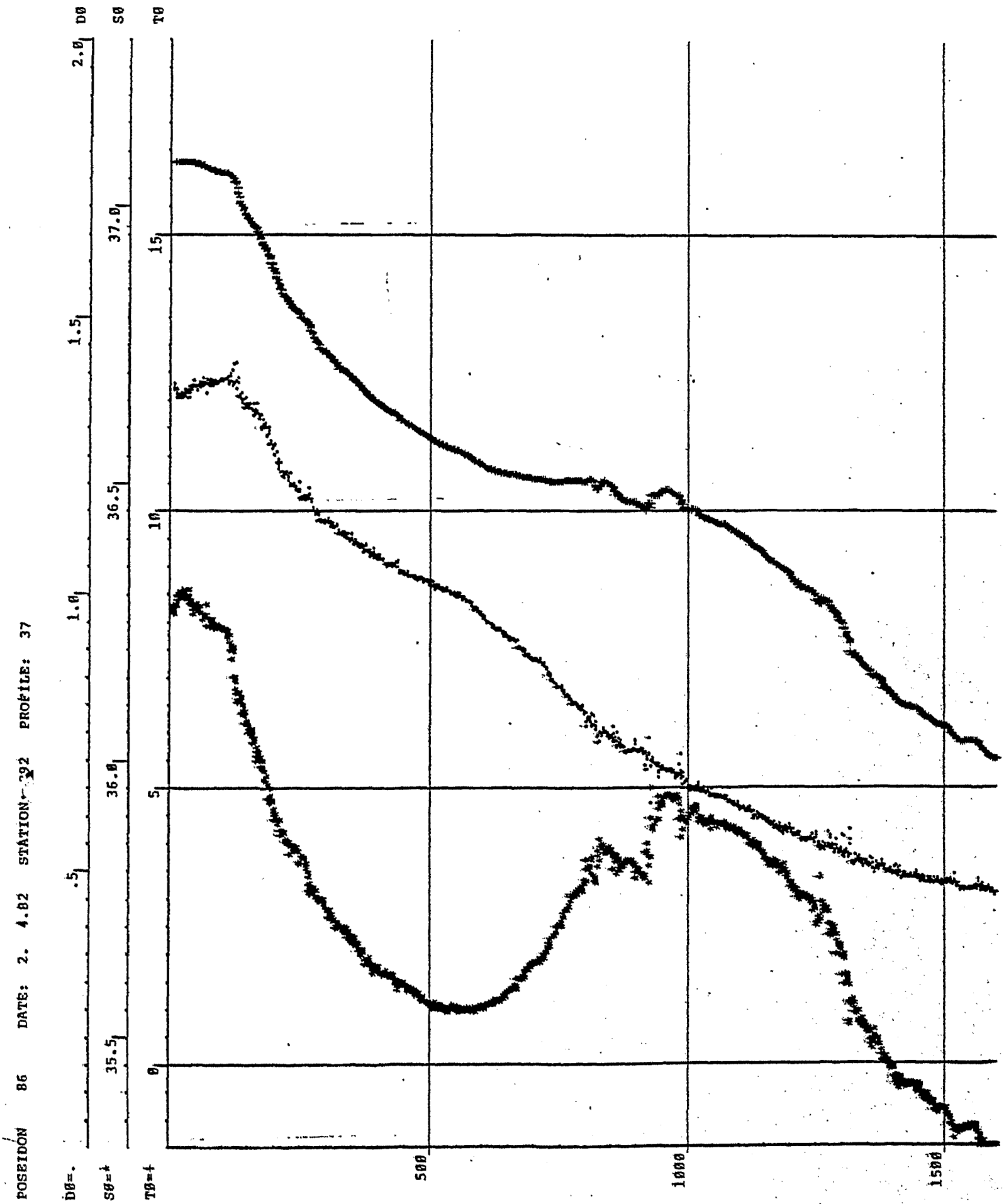


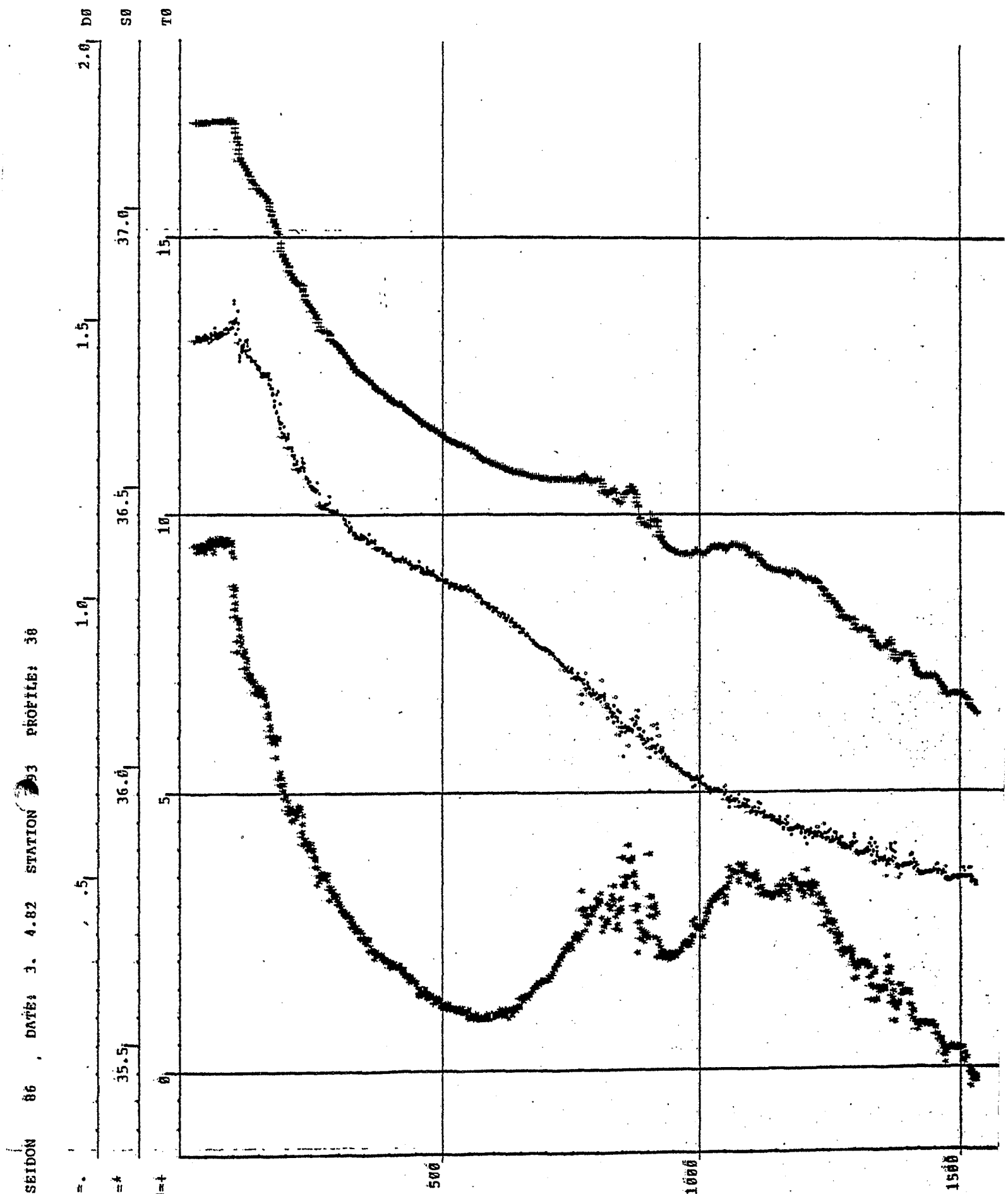

POSEIDON 66 DATE: 1. 4.82 STATION: 268 PROFILE: 33
DØ=.
.5
1.0
1.5
2.0
DØ
SØ=*
35.5
36.0
36.5
37.0
SØ
TØ=+
0
5
10
15
TØ
500
1000
1500


POSEIDON 86 DATE: 2. 4.82 STATION: 289 PROFILE: 34
DØ=.
SØ=*
TØ=+
.5
1.0
1.5
2.0
DØ
35.5
36.0
36.5
37.0
SØ
0
5
10
15
TØ
500
1000
1500

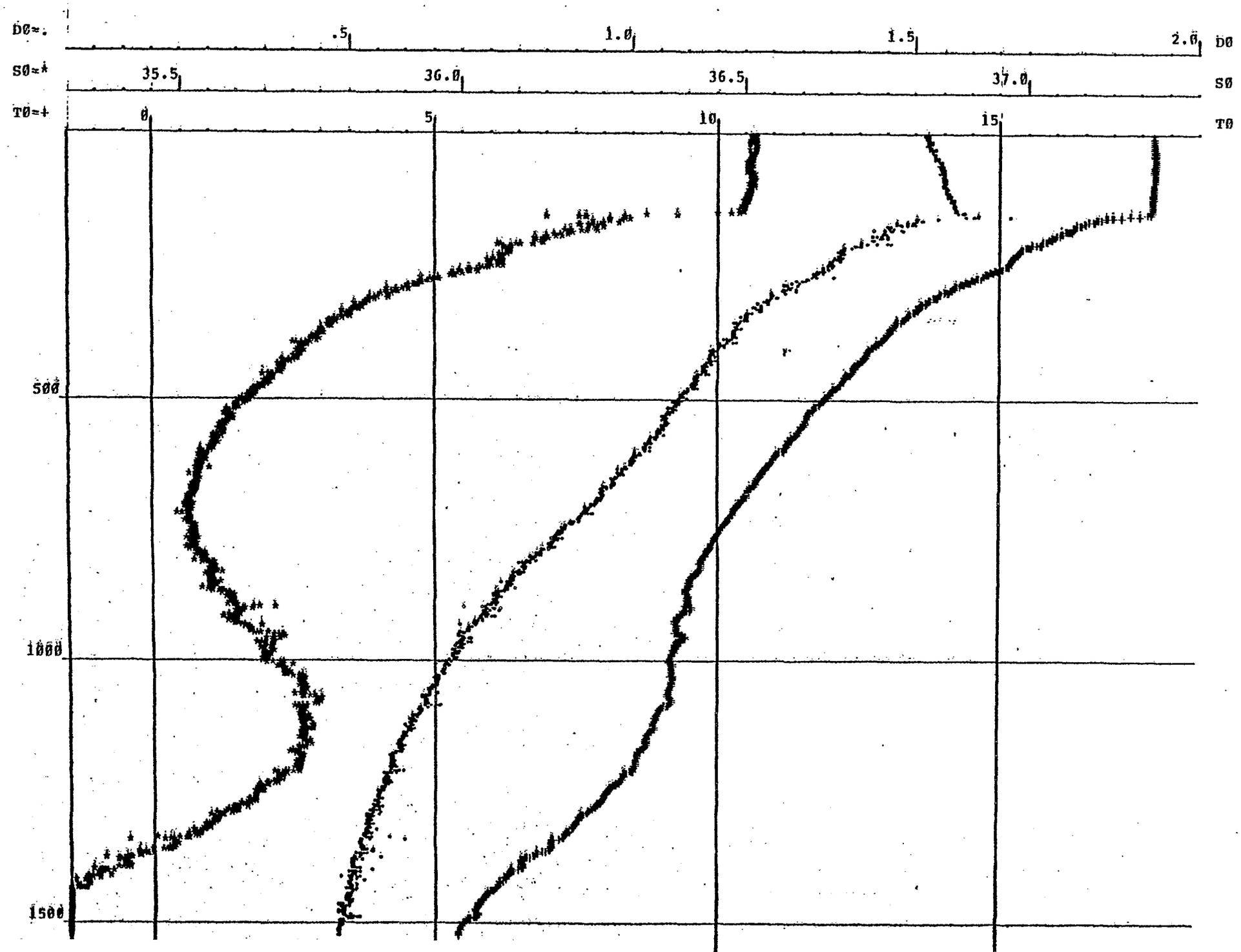

POSEIDON 86 DATE: 4. 2.82 STATION: 290 PROFILE: 35
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
10
5
5ØØ
1ØØØ
15ØØ


POSEIDON 86 DATE: 2. 4.82 STATION: 301 PROFILE: 36
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ

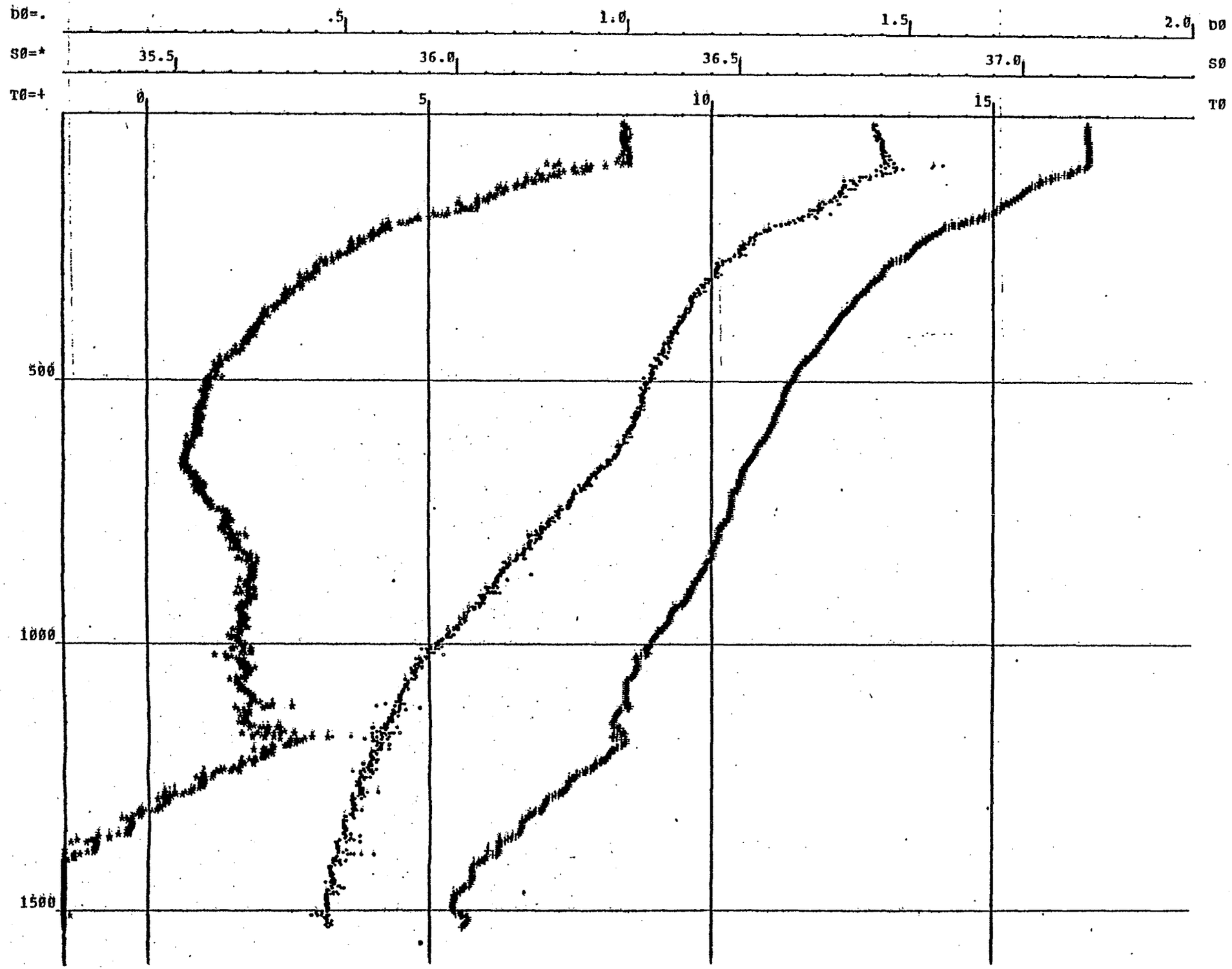

POSEIDON 86 DATE: 2. 4.82 STATION: 292 PROFILE: 37
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ

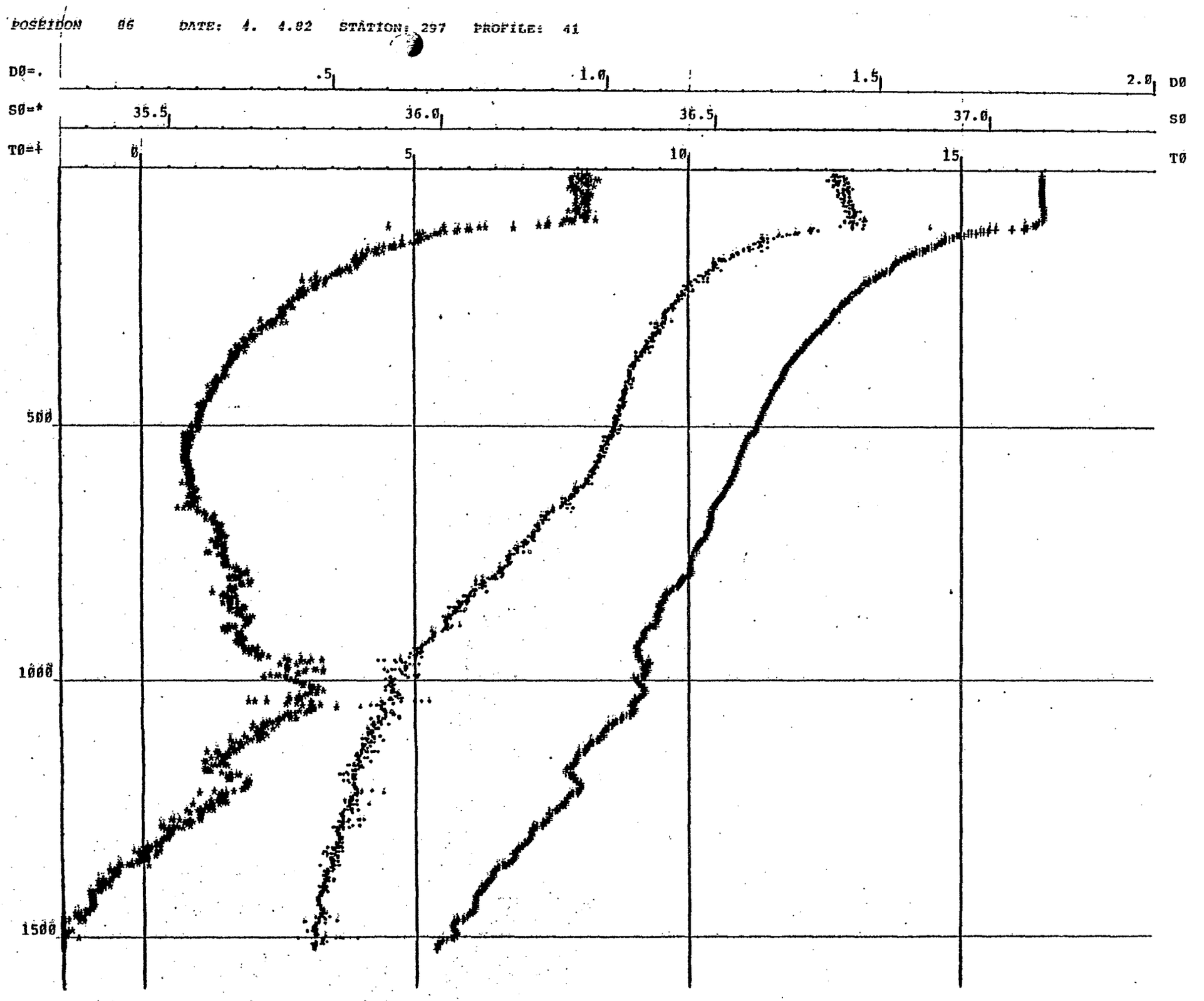

POSEIDON 86 , DATE: 3. 4.82 STATION 293 PROFILE: 38
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ

POSEIDON 86 DATE: 3. 4.82 STATION: 295 PROFILE: 39

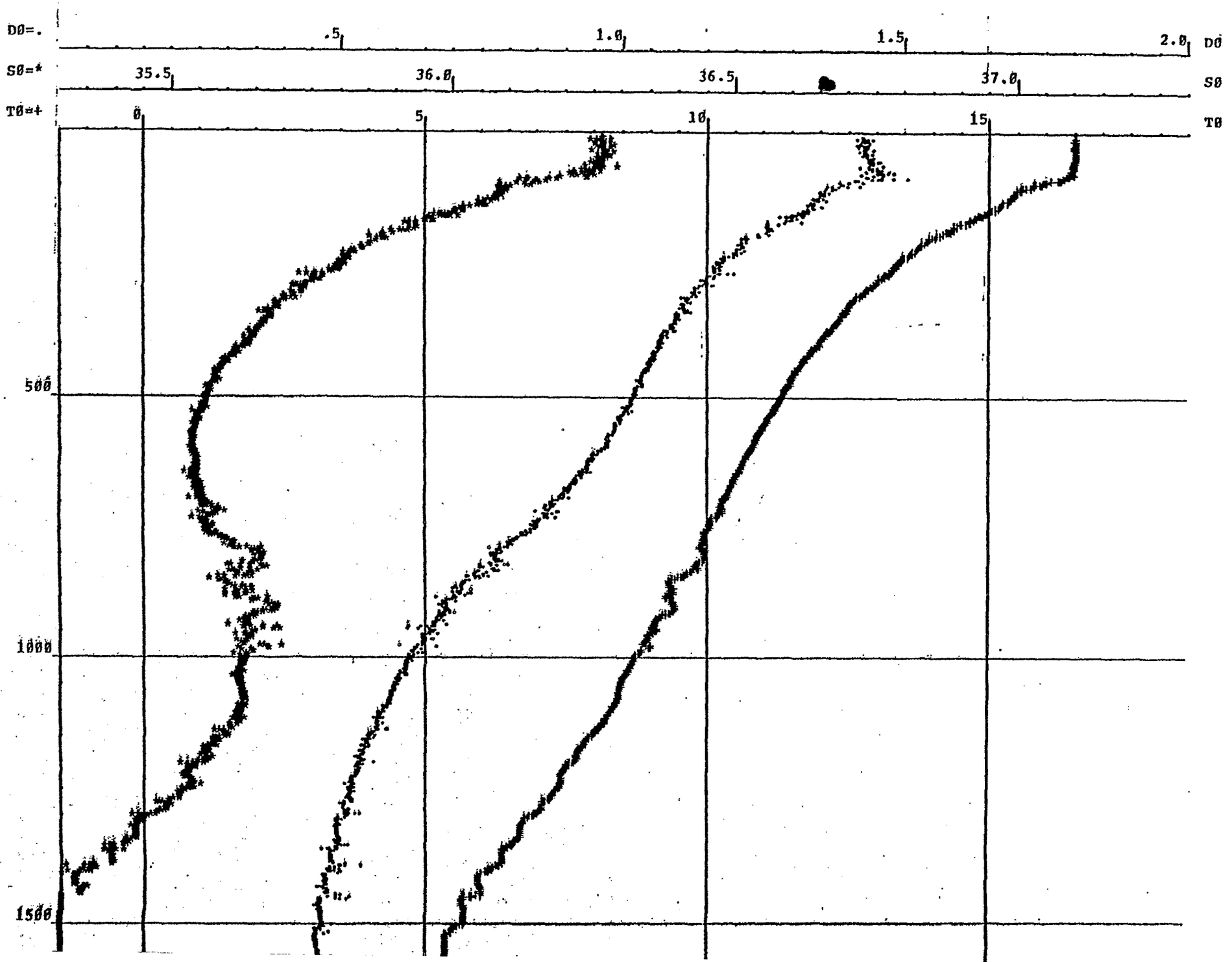


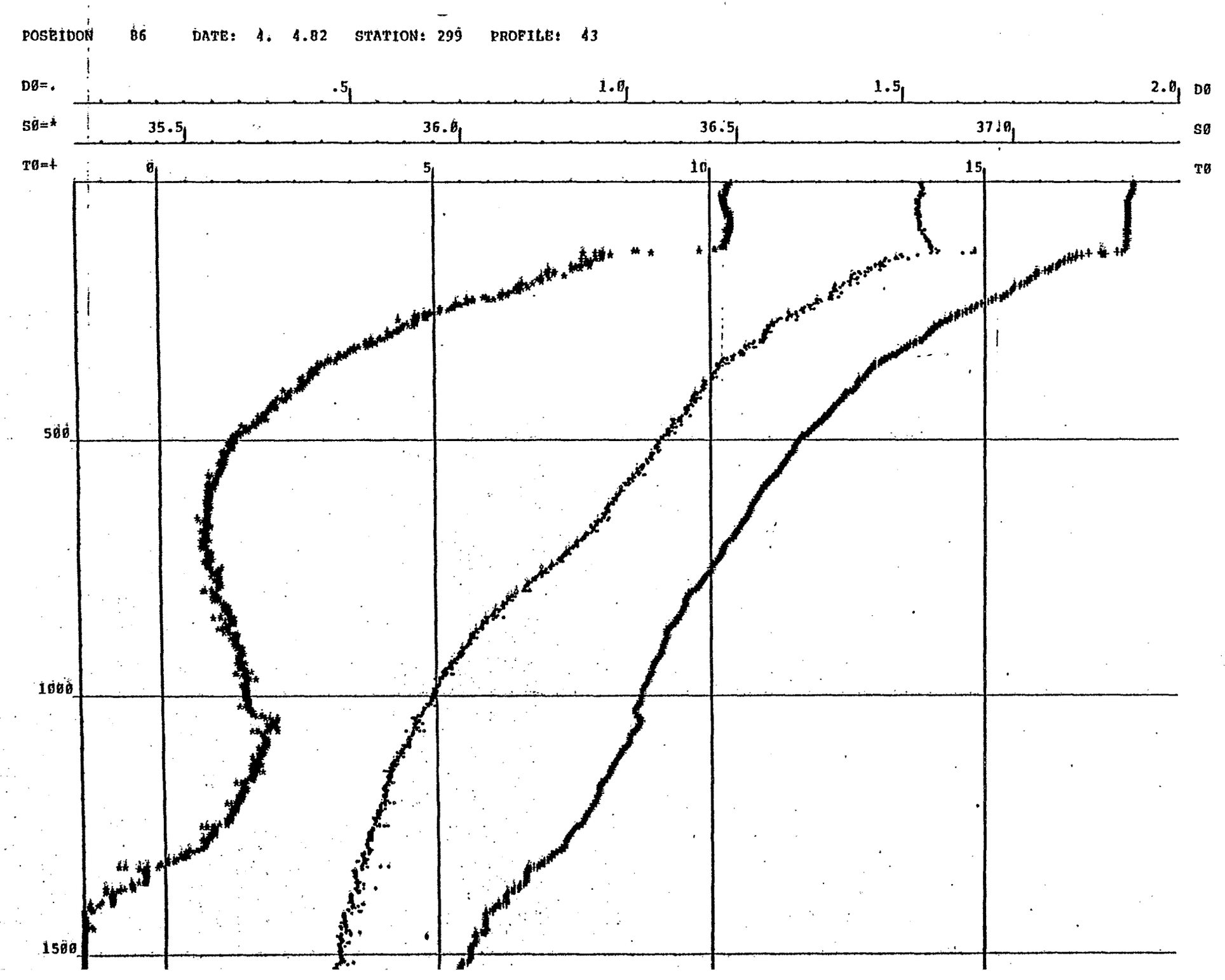
POSEIDON 66 DATE: 4. 4.62 STATION: 296 PROFILE: 40

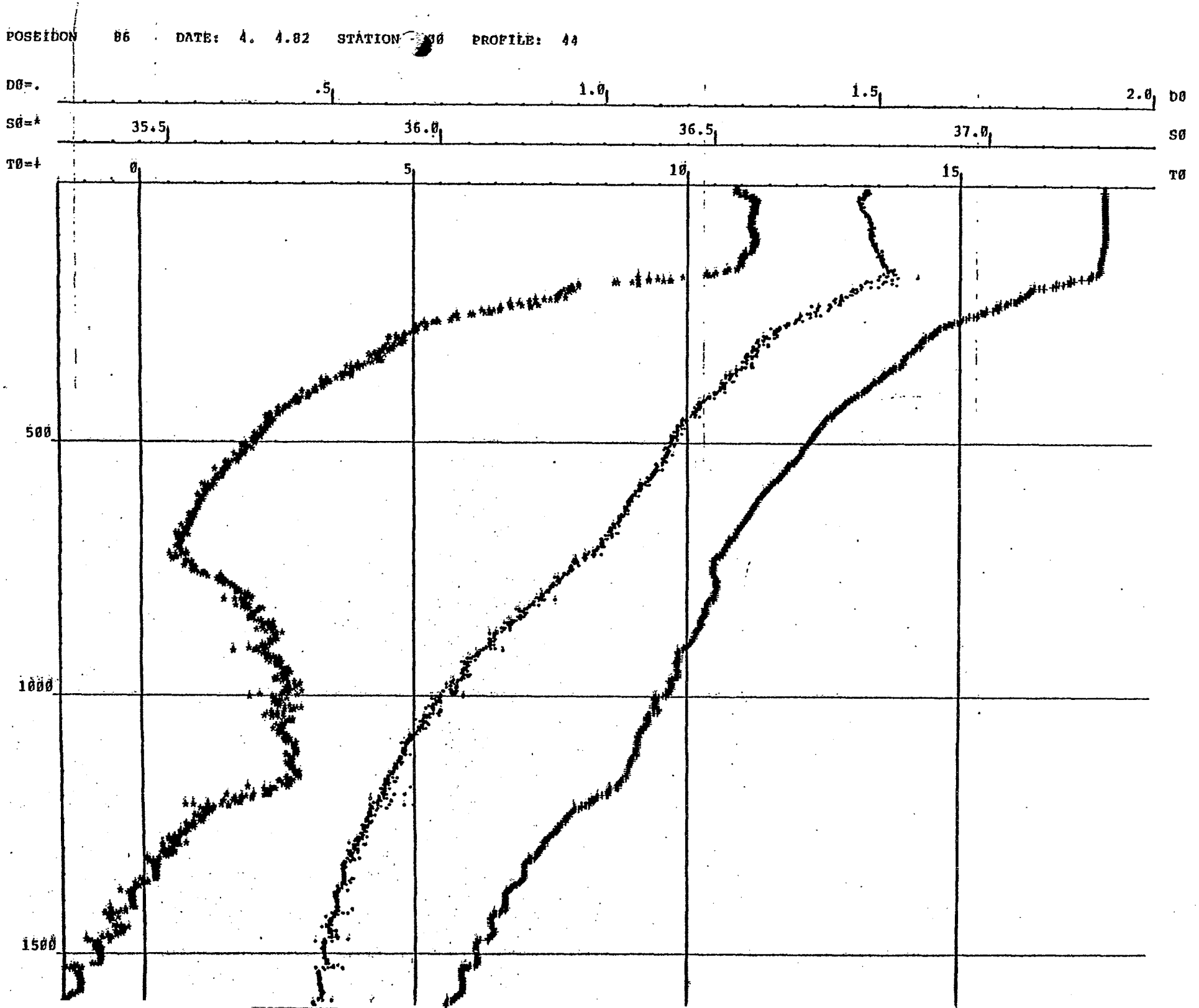



POSEIDON 86 DATE: 4. 4.82 STATION: 297 PROFILE: 41
DØ=.
.5
1.Ø
1.5
2.Ø
DØ
SØ=*
35.5
36.Ø
36.5
37.Ø
SØ
TØ=+
Ø
5
10
15
TØ
5ØØ
1ØØØ
15ØØ

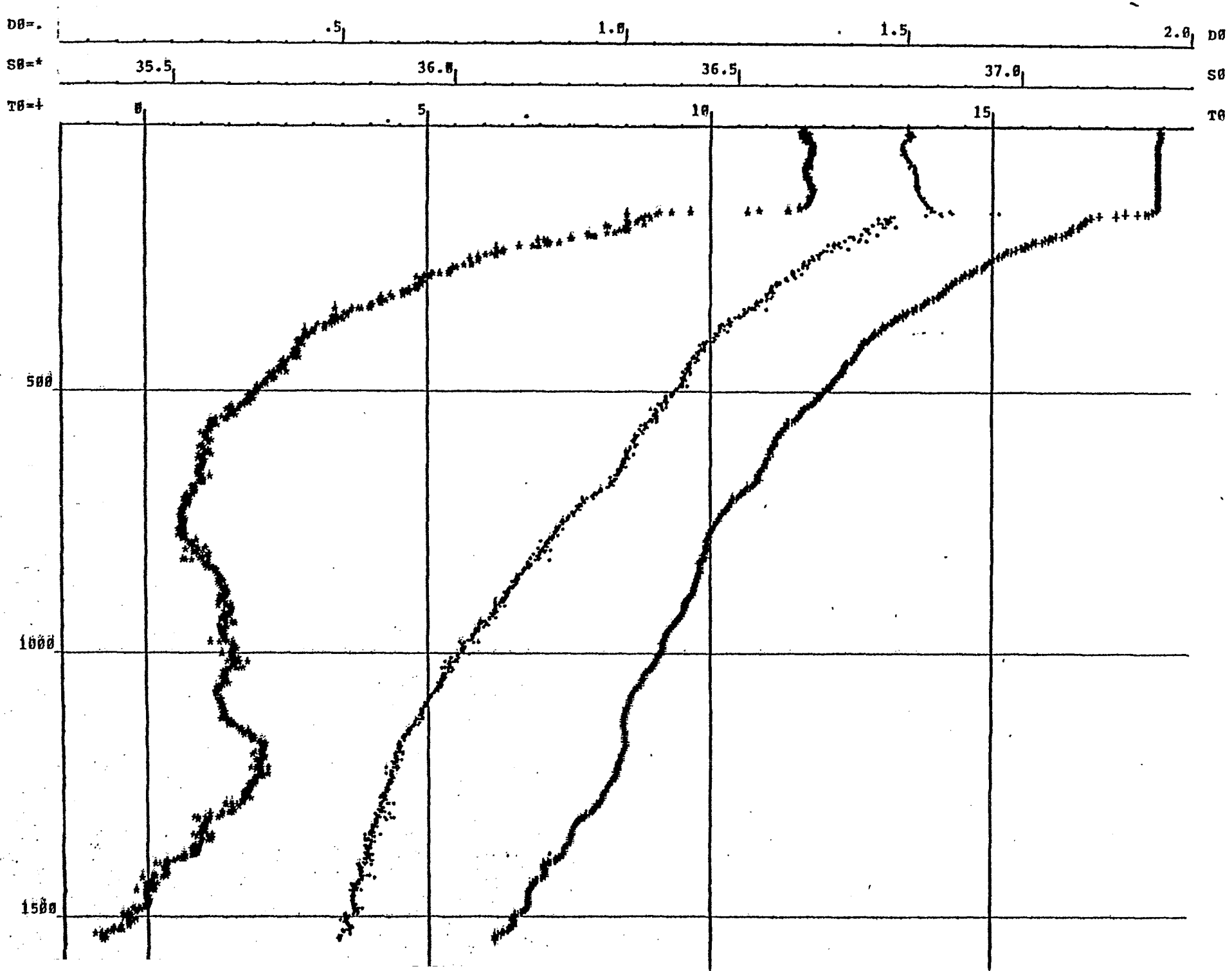
POSEIDON 86 DATE: 4. 4.82 STATION: 290 PROFILE: 42



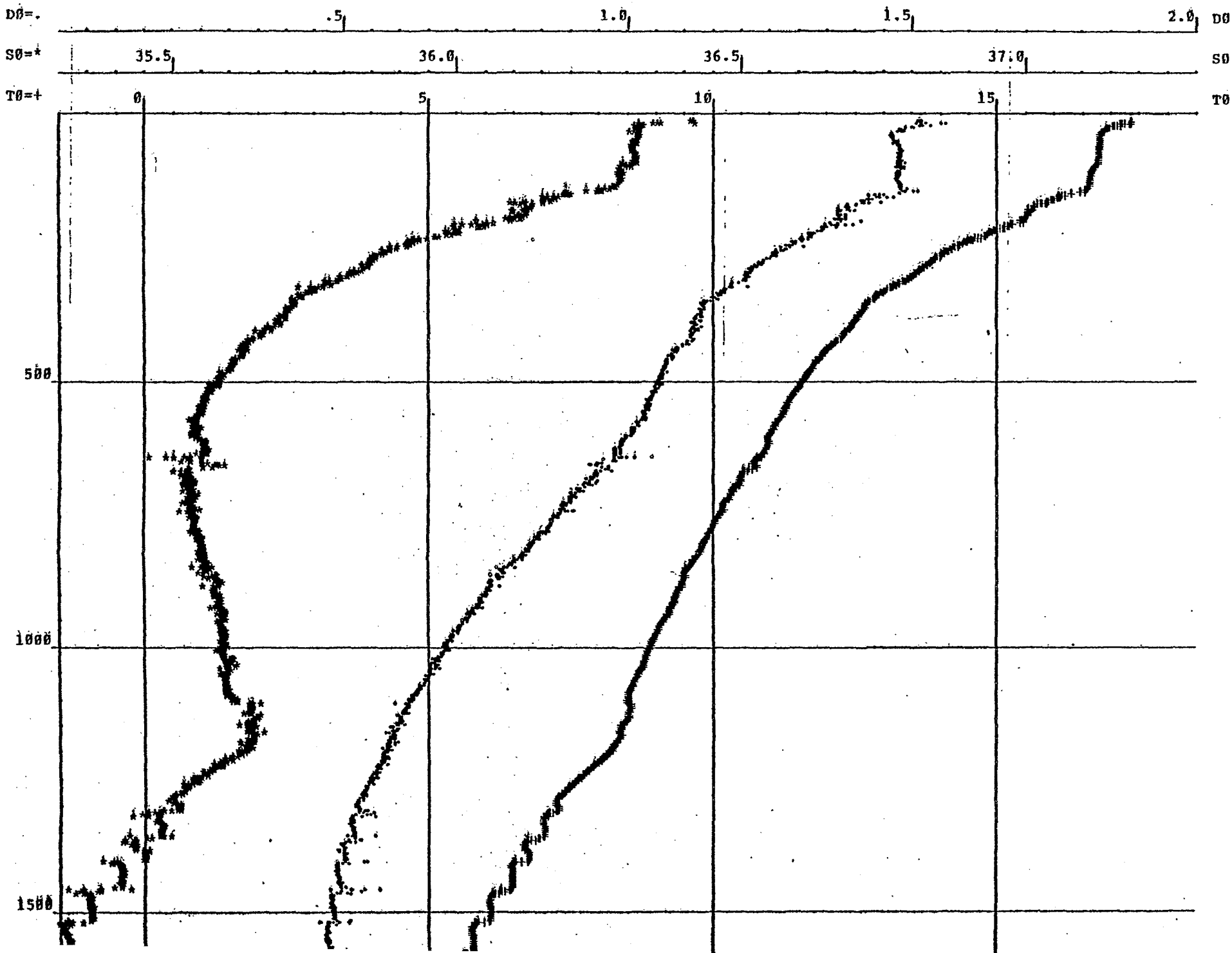

POSEIDON 86 DATE: 4. 4.82 STATION: 299 PROFILE: 43
DØ=. .5 1.0 1.5 2.0 DØ
SØ=* 35.5 36.0 36.5 37.0 SØ
TØ=+ 0 5 10 15 TØ
500
1000
1500

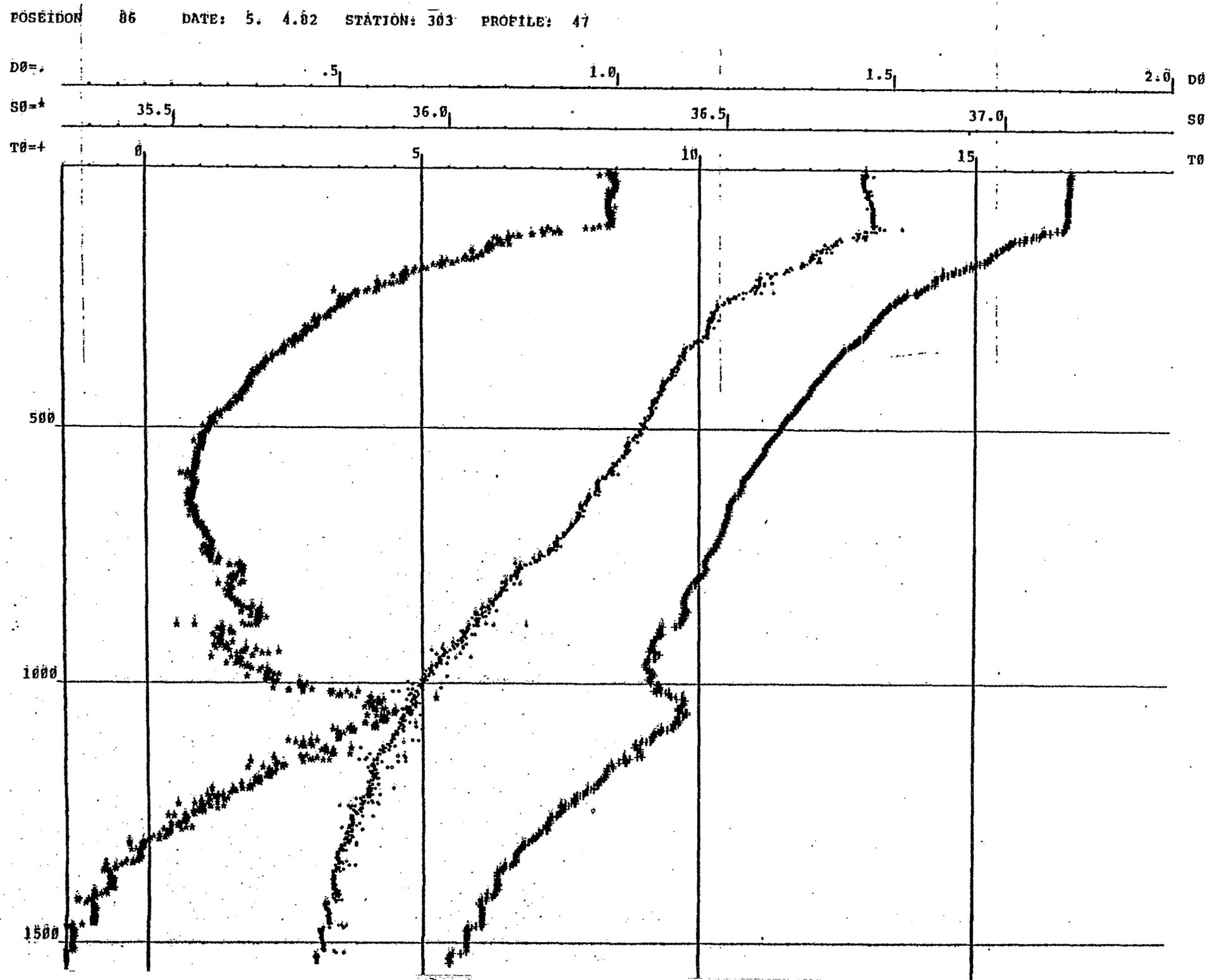

POSEIDON 86 DATE: 4. 4.82 STATION 300 PROFILE: 44
DØ=.
.5
1.0
1.5
2.0
DØ
SØ=*
35.5
36.0
36.5
37.0
SØ
TØ=+
Ø
5
10
15
TØ
500
1000
1500

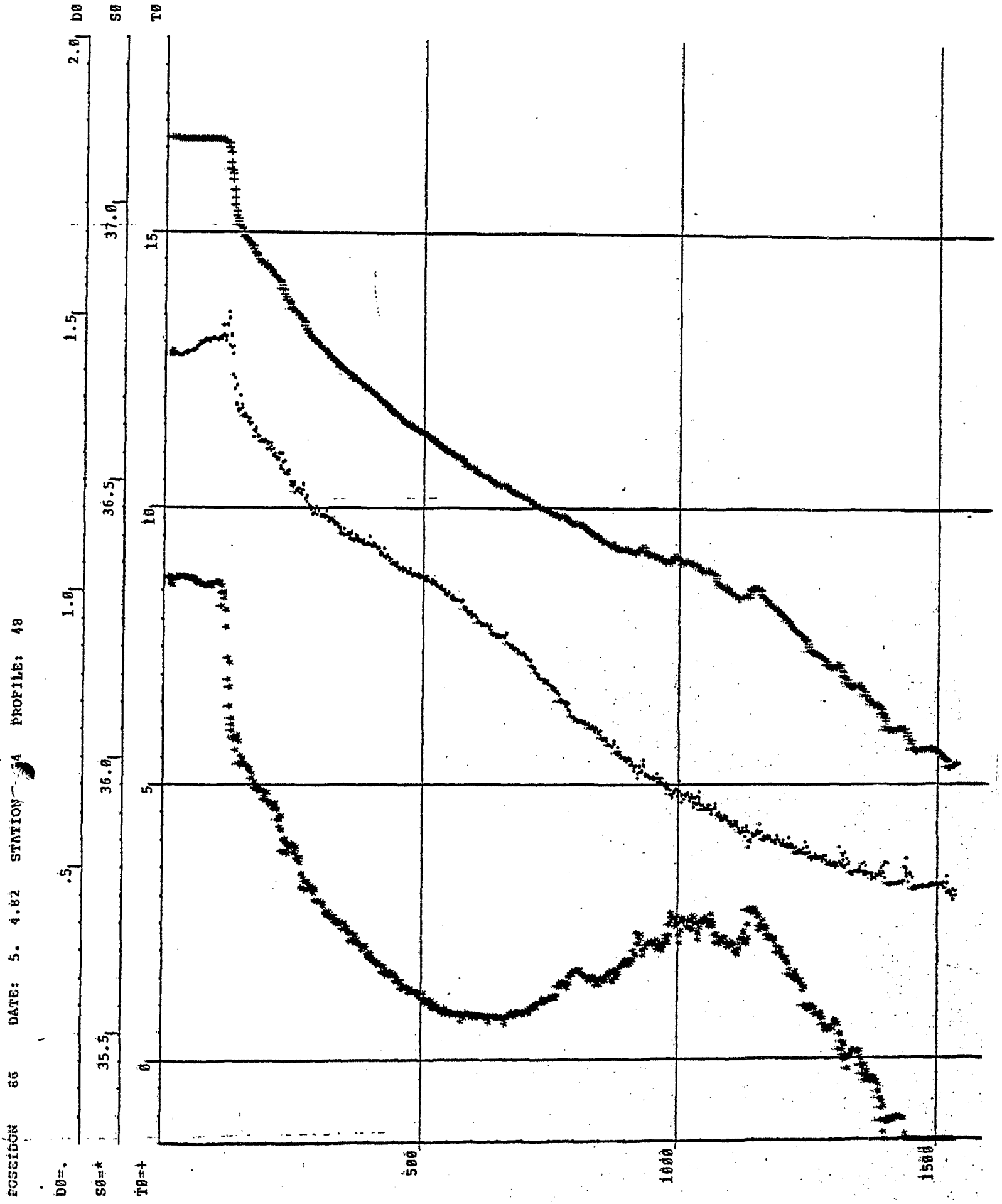
POSEIDON 86 DATE: 5. 4.82 STATIC 001 PROFILE: 45

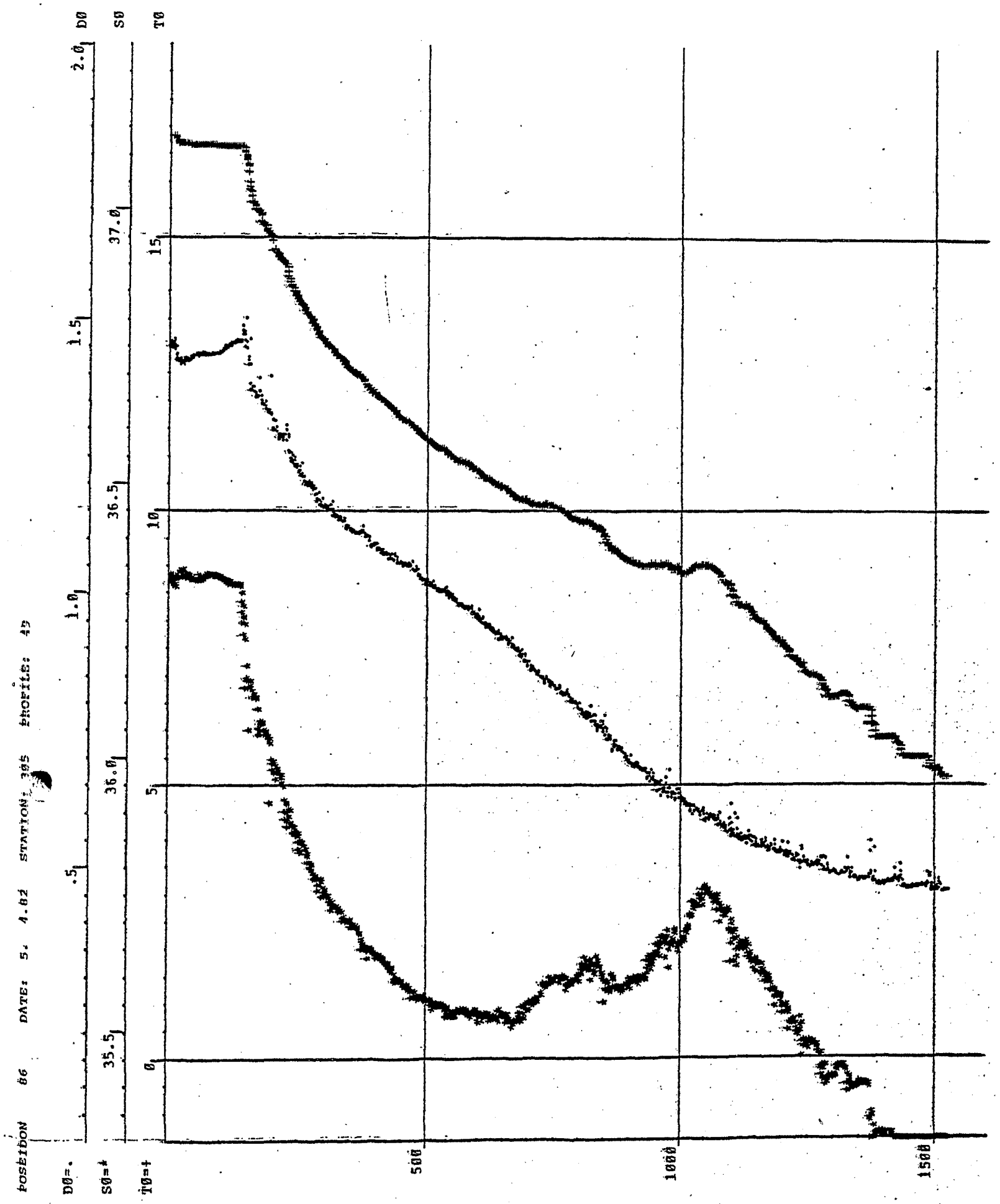


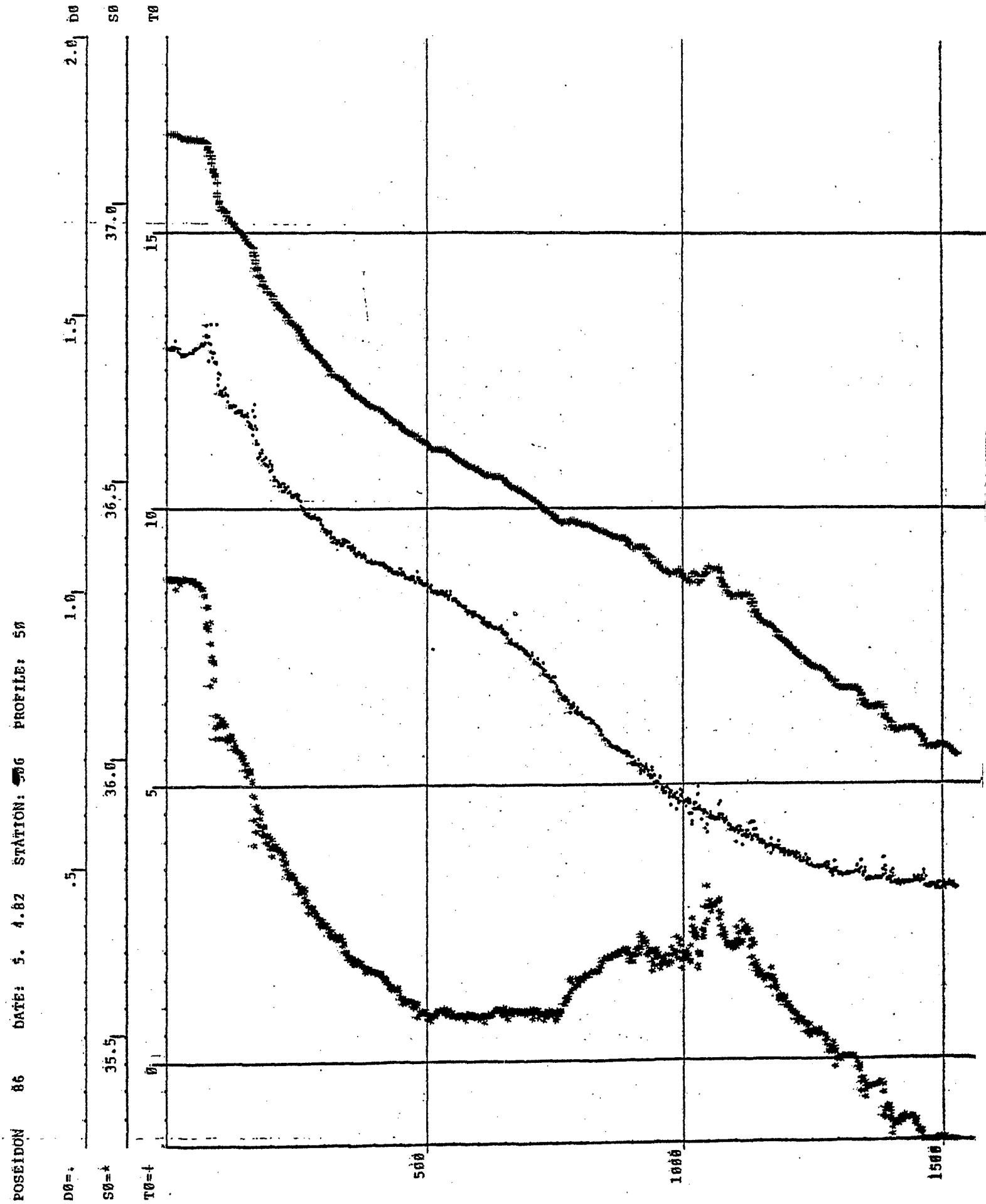
POSEIDON 86 DATE: 5. 4.82 STATION: 2 PROFILE: 46

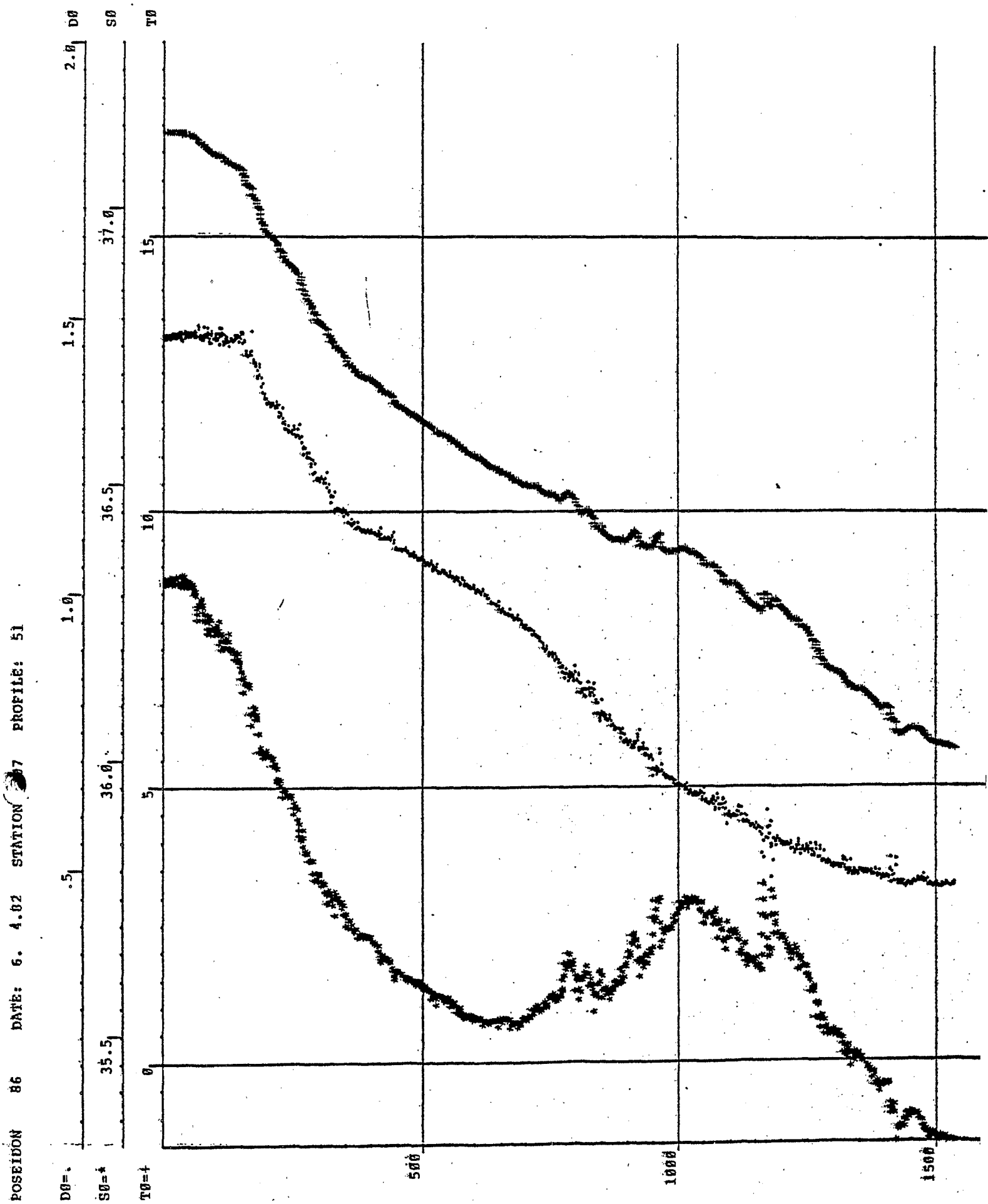


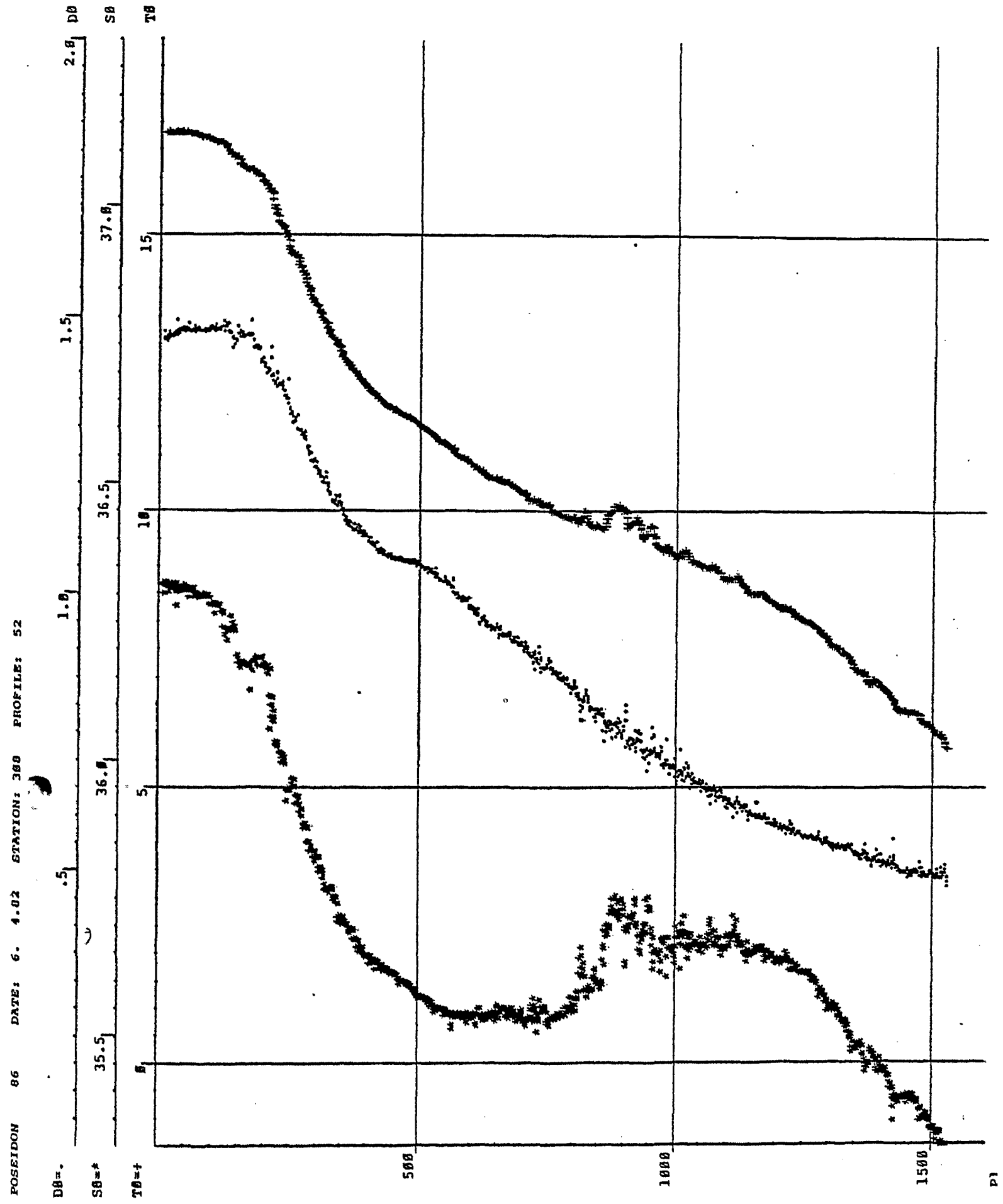

POSEIDON 86 DATE: 5. 4.82 STATION: 303 PROFILE: 47
DØ=.
SØ=*
TØ=+
.5
1.0
1.5
2.0
DØ
35.5
36.0
36.5
37.0
SØ
Ø
5
10
15
TØ
500
1000
1500

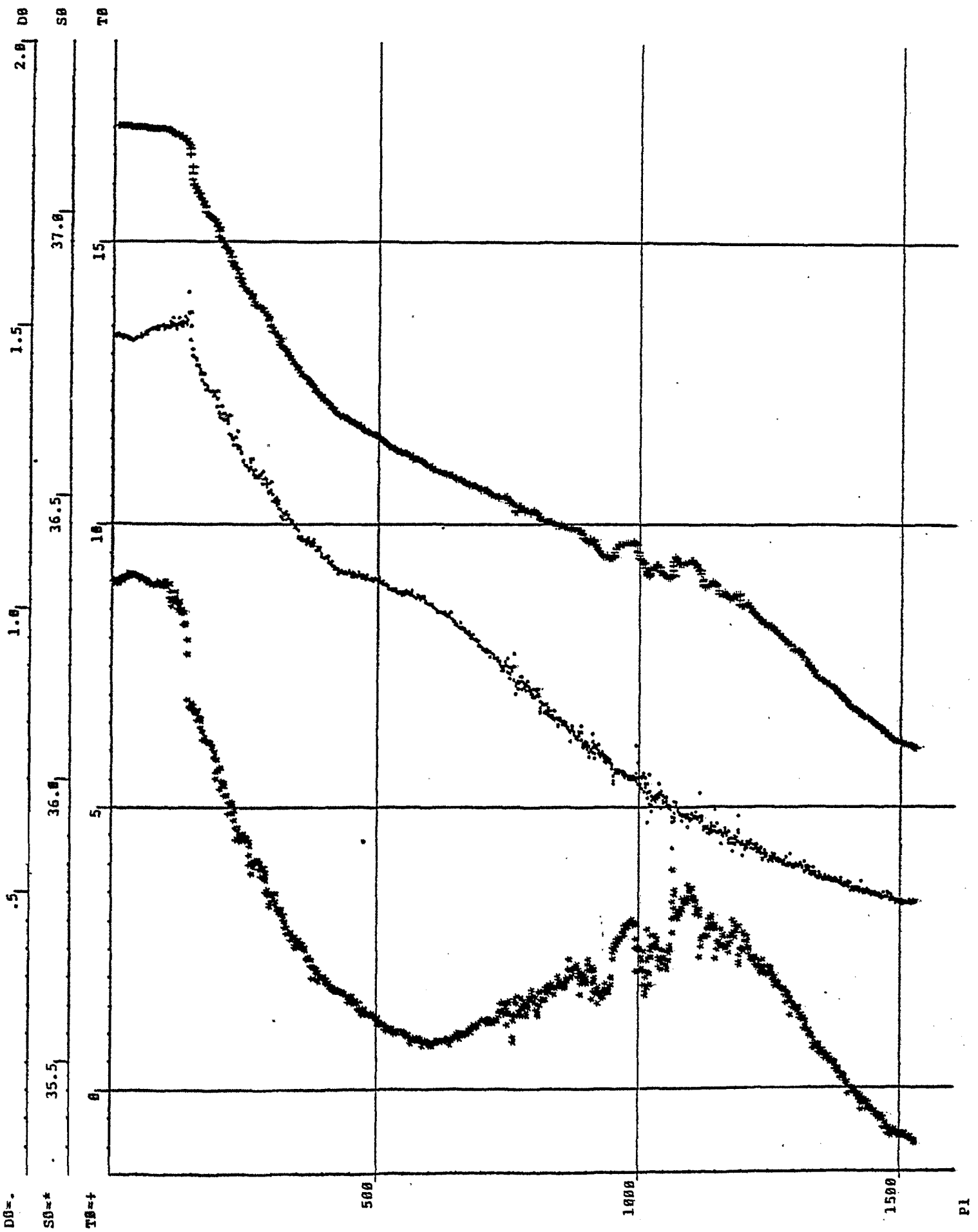

POSITION 66 DATE: 5. 4.82 STATION 34 PROFILE: 48
D0=.
S0=*
T0=+
D0
S0
T0
2.0
1.5
1.0
.5
0
37.0
36.5
36.0
35.5
15
10
5
0
500
1000
1500

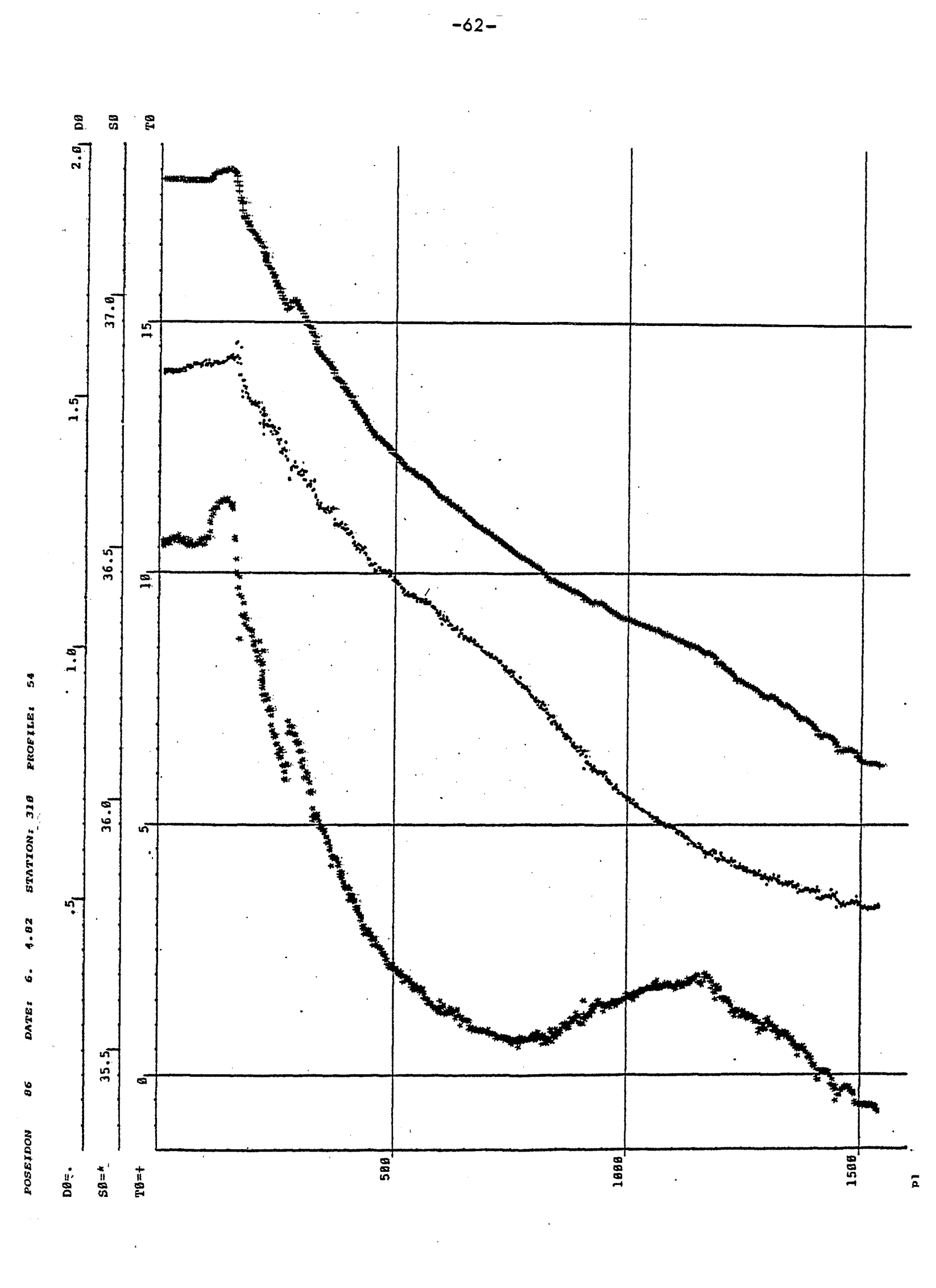

POSEIDON 86 DATE: 5. 4.82 STATION: 305 PROFILE: 45
D0=.
S0=+
T0=+
D0
S0
T0
2.0
1.5
1.0
.5
0
37.0
36.5
36.0
35.5
15
10
5
0
500
1000
1500

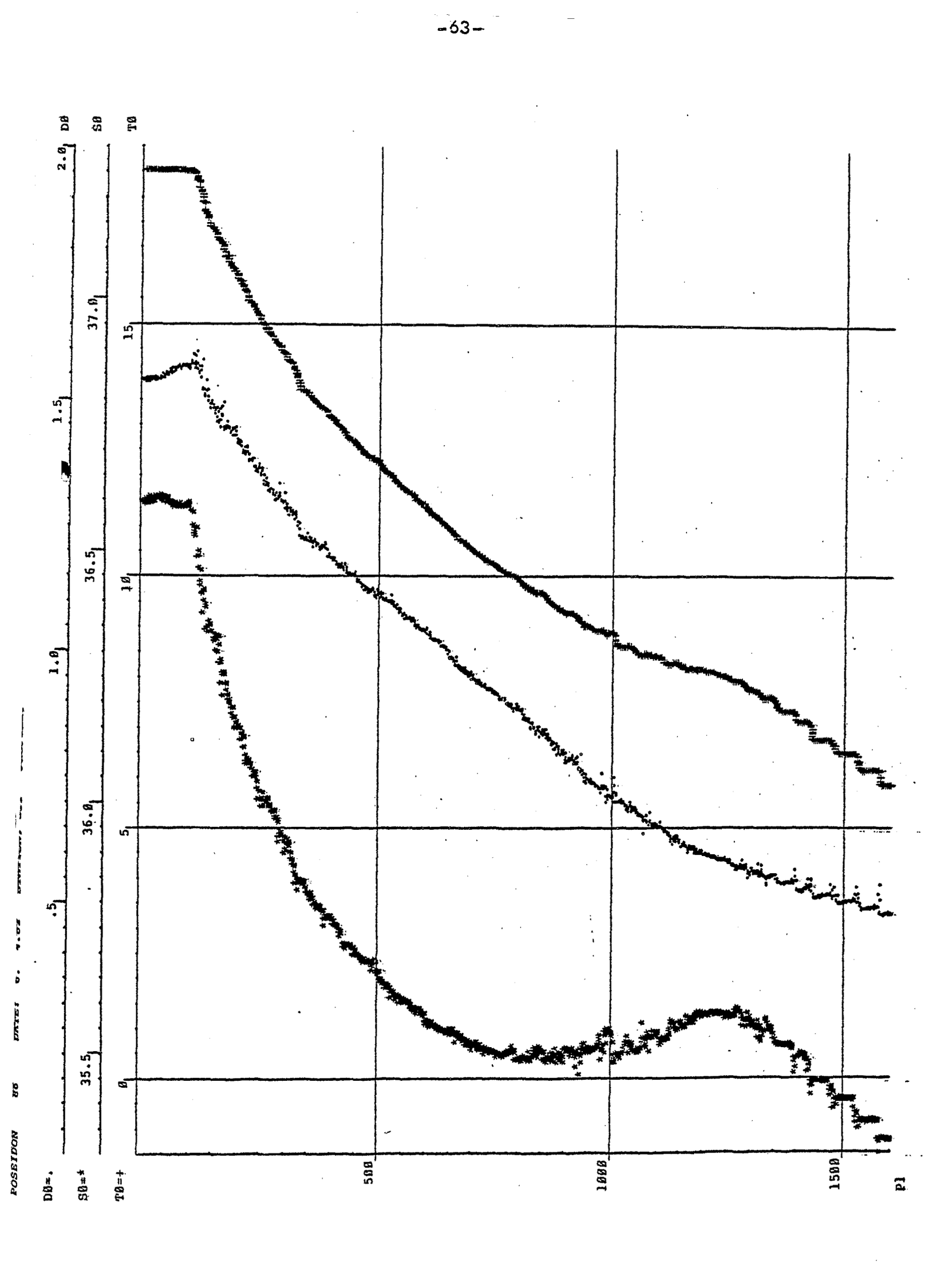

POSEIDON 86 DATE: 5. 4.82 STATION: 506 PROFILE: 50
D0=.
S0=*
T0=+
.5
1.0
1.5
2.0
D0
35.5
36.0
36.5
37.0
S0
0
5
10
15
T0
500
1000
1500

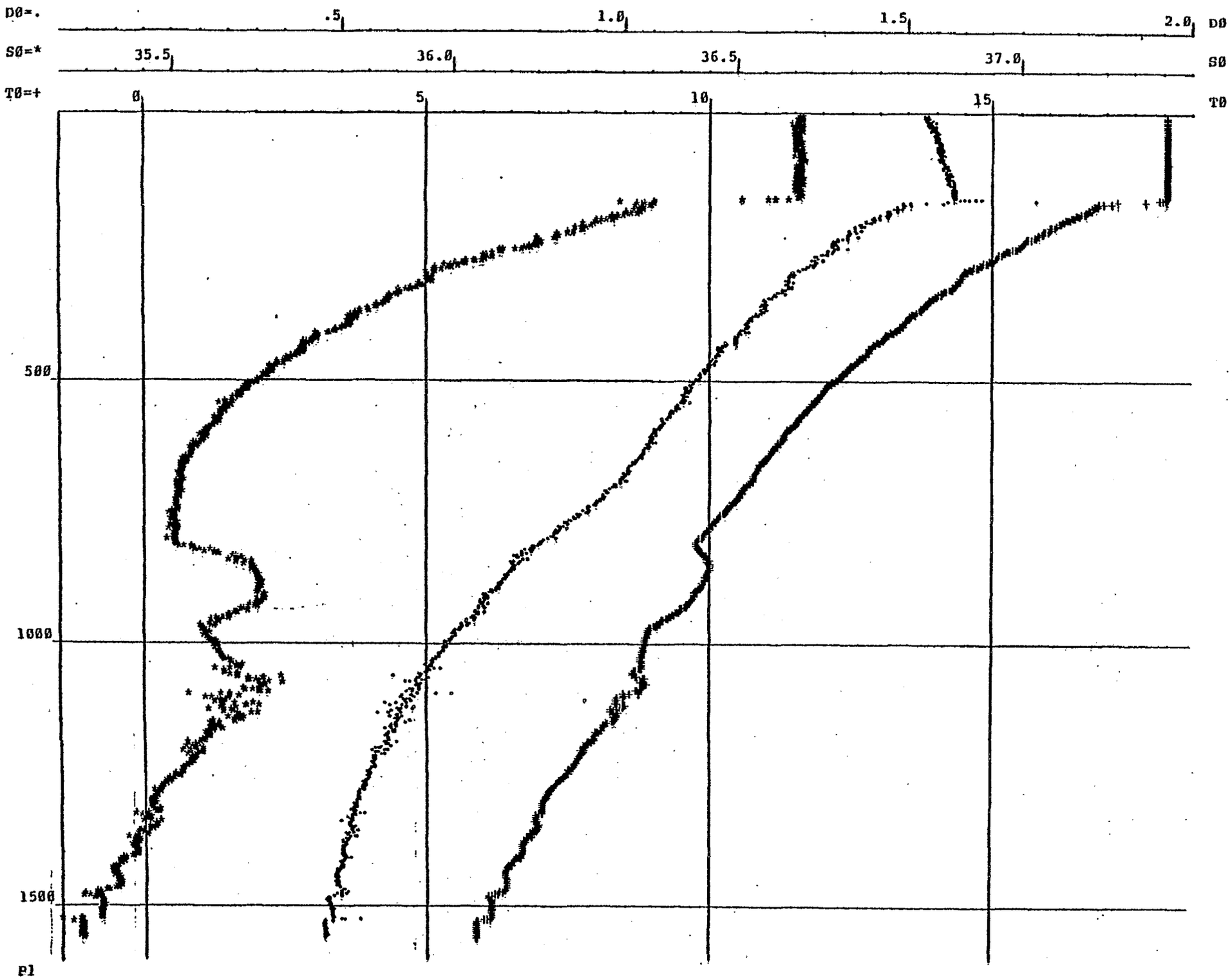

POSEIDON 86 DATE: 6. 4.82 STATION 287 PROFILE: 51
D0=.
S0=*
T0=+
D0
S0
T0
2.0
1.5
1.0
.5
0
37.0
36.5
36.0
35.5
15
10
5
0
500
1000
1500

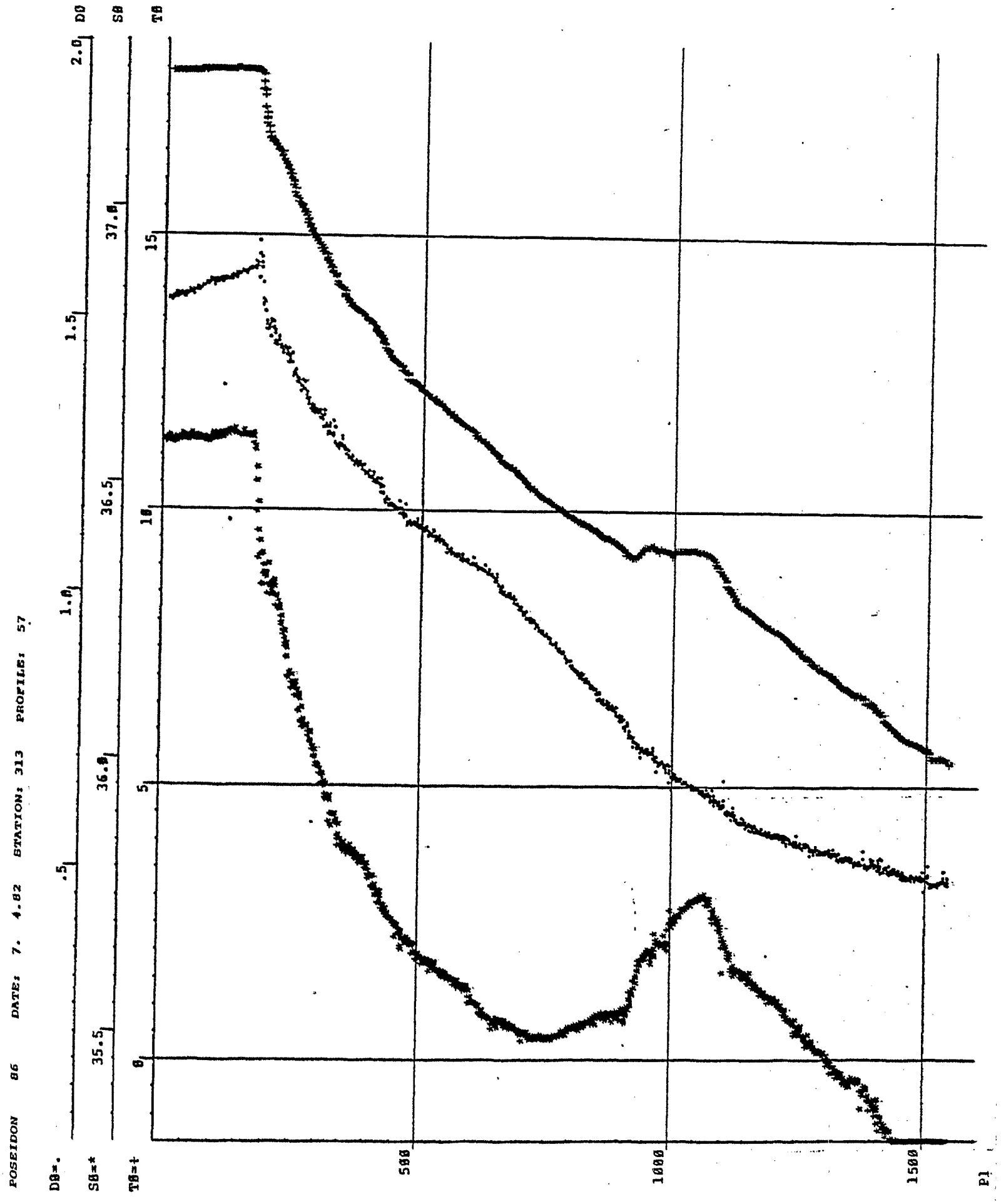

POSEIDON 86 DATE: 6. 4.82 STATION: 380 PROFILE: 52
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ
P1

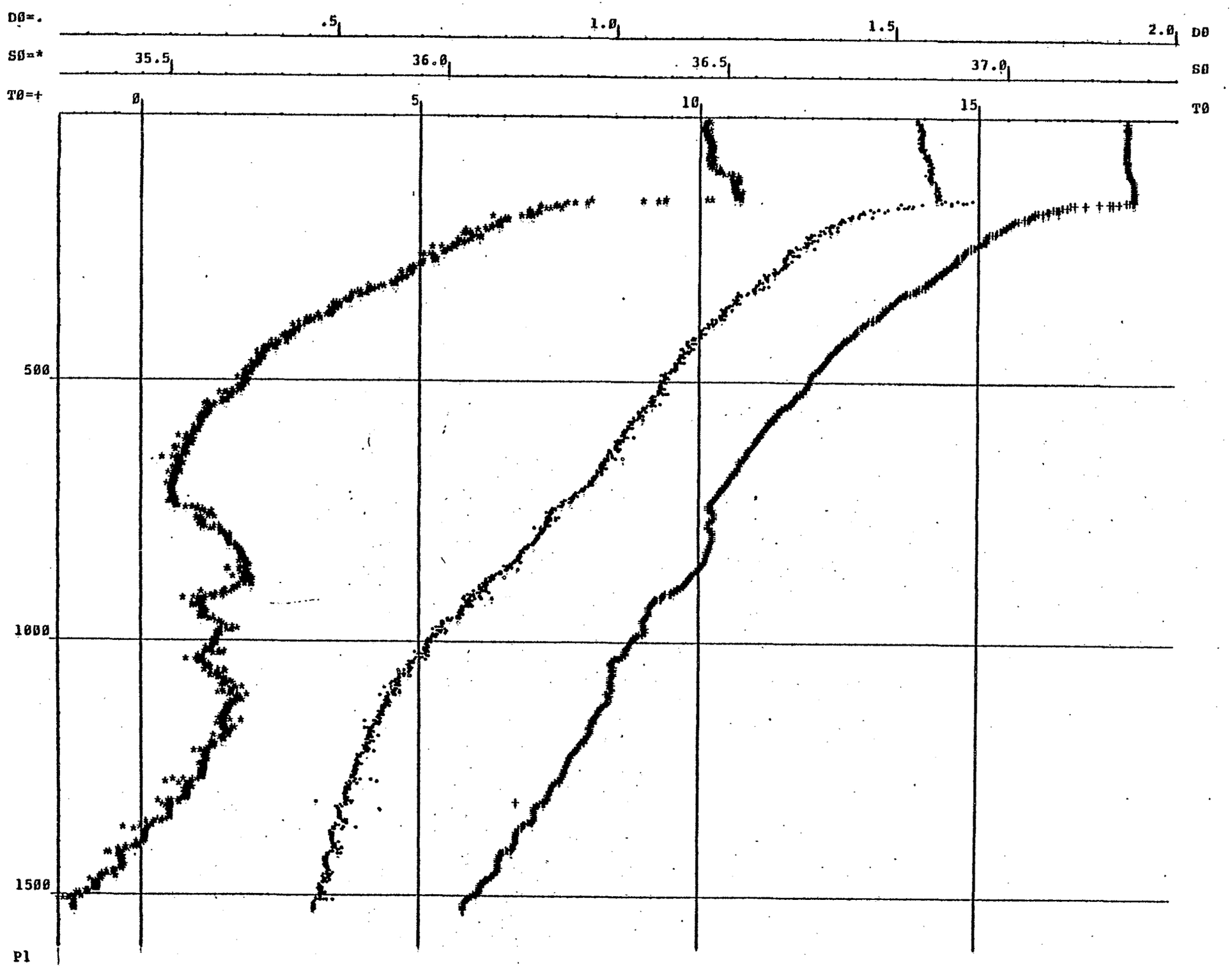

POSEIDON 86 DATE: 6. 4.82 STATION: 389 PROFILE: 53
D0=.
S0=*
T0=+
D0
S0
T0
2.0
1.5
1.0
.5
37.0
36.5
36.0
35.5
15
10
5
0
500
1000
1500
P1

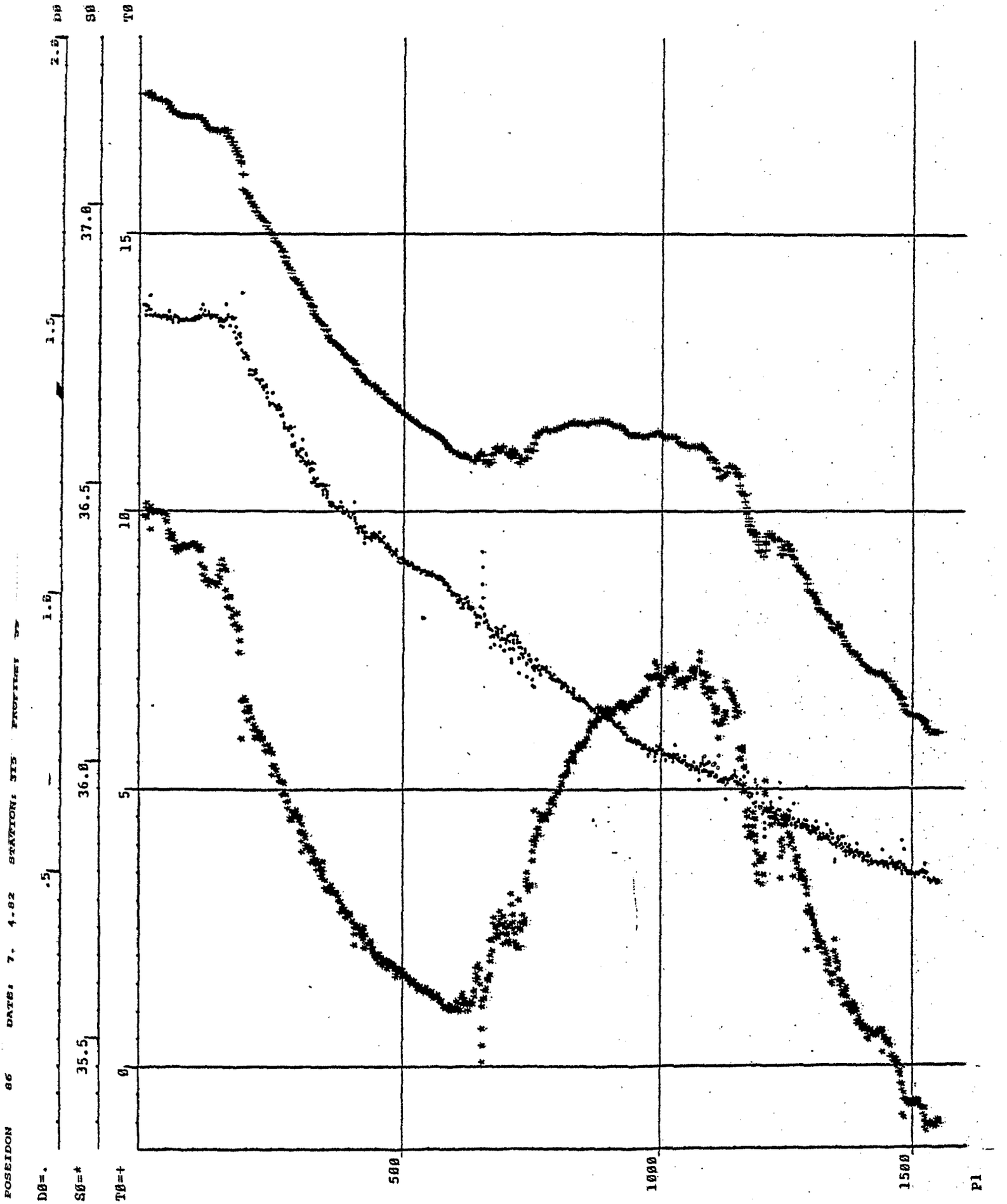

POSEIDON 86 DATE: 6. 4.82 STATION: 318 PROFILE: 54
D0=.
S0=*
T0=+
D0
S0
T0
2.0
1.5
1.0
.5
0
37.0
36.5
36.0
35.5
15
10
5
0
500
1000
1500
P1

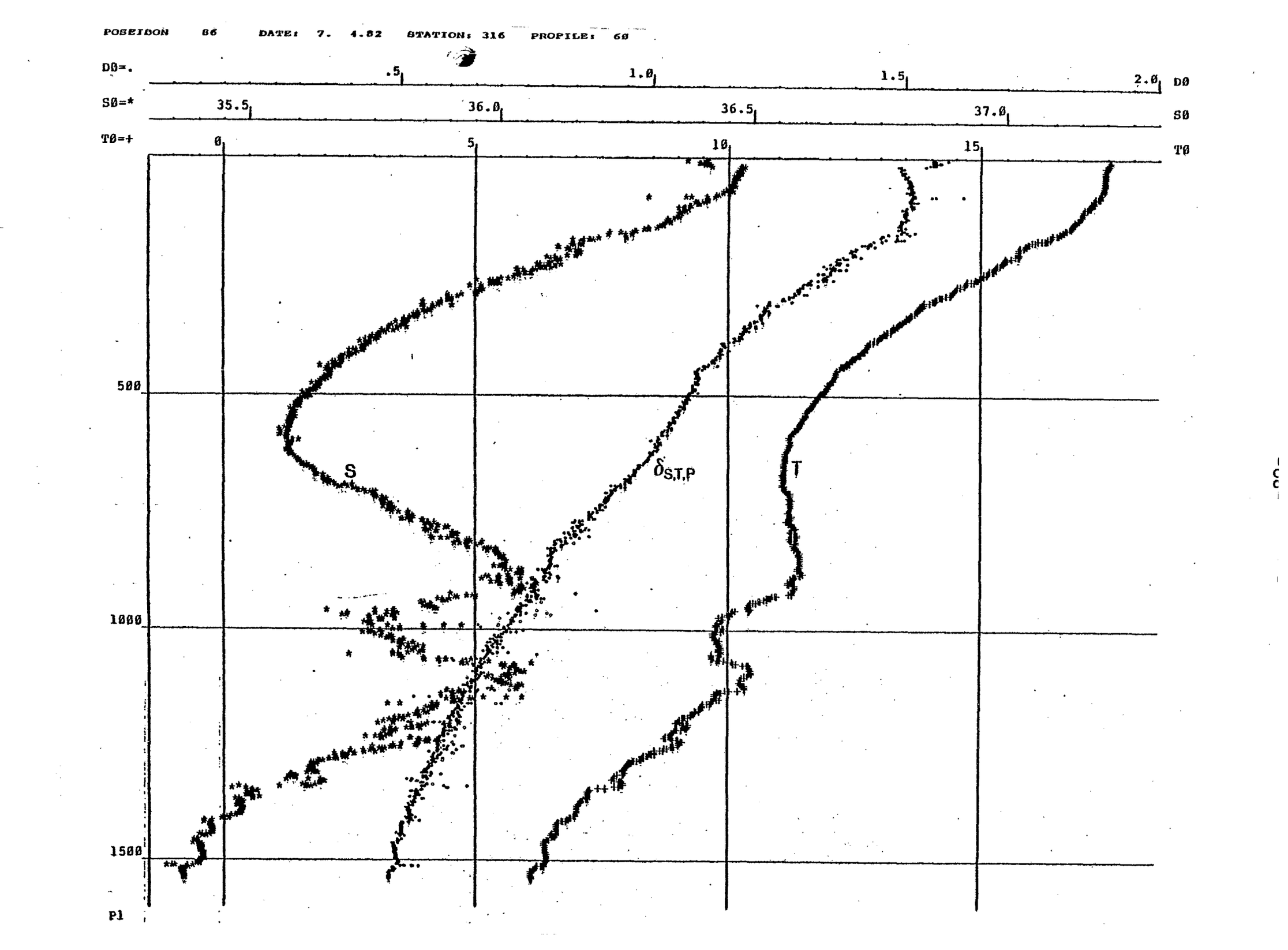

POSEIDON
DØ
SØ
TØ
DØ=.
SØ=*
TØ=+
2.Ø
1.5
1.Ø
.5
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ
Pl


DØ=.
.5
1.0
1.5
2.0
DØ
SØ=*
35.5
36.0
36.5
37.0
SØ
TØ=+
0
5
10
15
TØ
500
1000
1500
P1

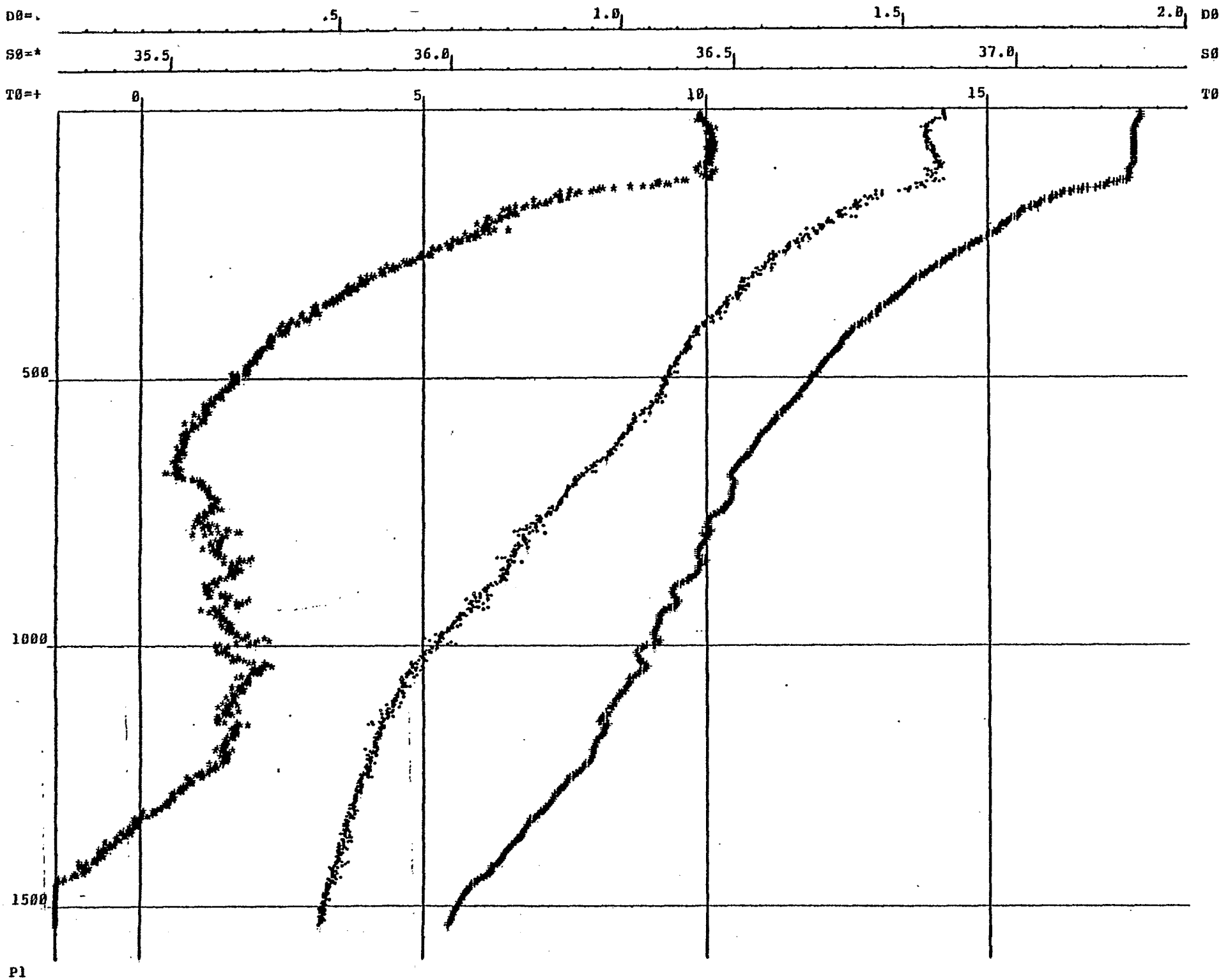

POSEIDON 86 DATE: 7. 4.82 STATION: 313 PROFILE: 57
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.0
1.5
1.0
.5
37.0
36.5
36.0
35.5
15
10
5
0
500
1000
1500
P1

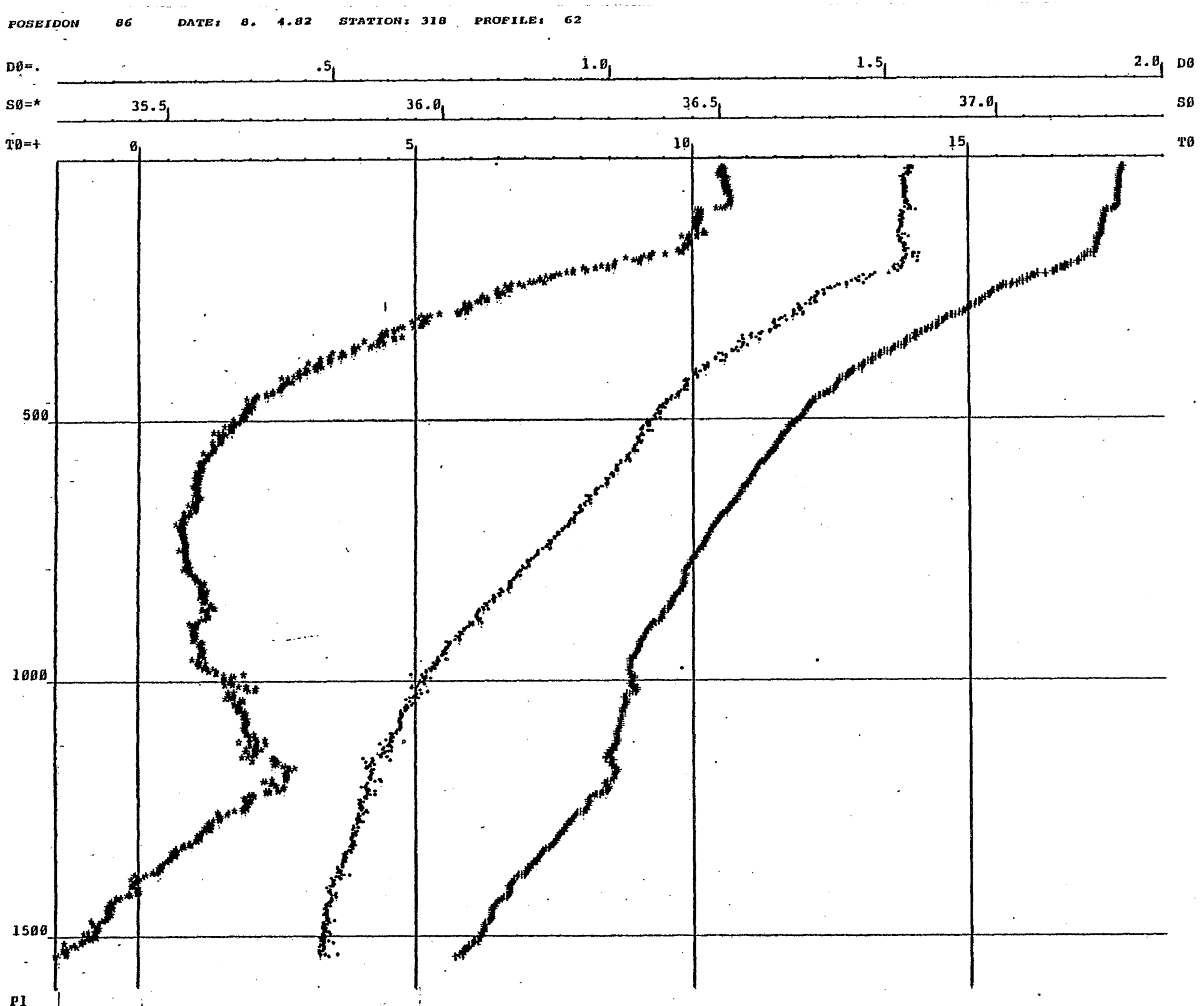

POSEIDON 86 DATE: 7. 4.82 STATION: 314 PROFILE: 58
DØ=.
SØ=*
TØ=+
.5
1.Ø
1.5
2.Ø
35.5
36.Ø
36.5
37.Ø
Ø
5
10
15
500
1000
1500
P1
100

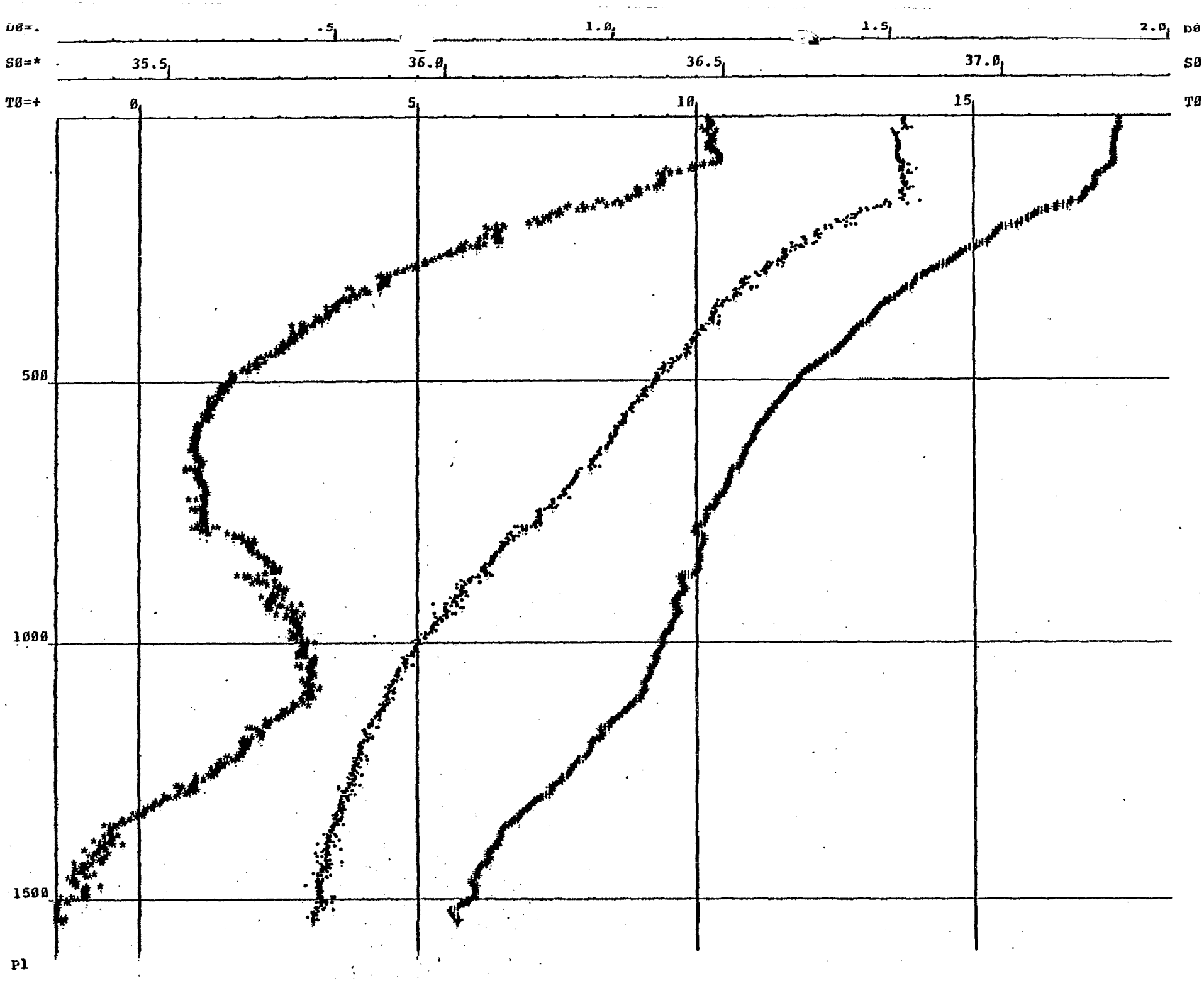

POSEIDON 86 DATE: 7. 4.82 STATION: 315 PROFILE 3
DØ=.
SØ=*
TØ=+
.5
1.0
1.5
2.0
DØ
35.5
36.0
36.5
37.0
SØ
0
5
10
15
TØ
500
1000
1500
P1

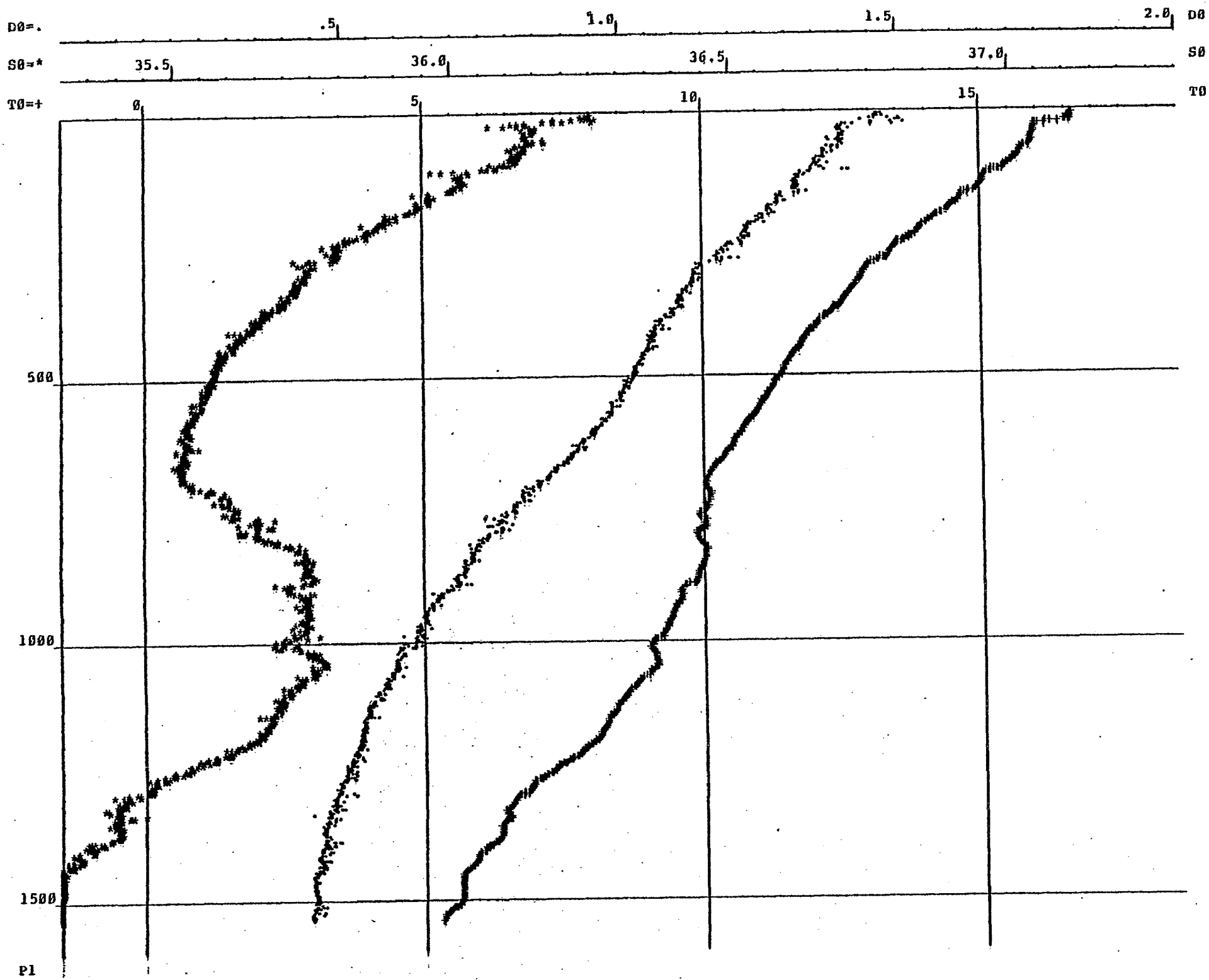

POSEIDON 86 DATE: 7. 4.82 STATION: 316 PROPILE: 60
D0=.
S0=*
T0=+
.5
1.0
1.5
2.0
D0
35.5
36.0
36.5
37.0
S0
0
5
10
15
T0
500
1000
1500
P1
S
δS,T,P
T

POSEIDON 86 DATE: 7. 4.82 STATION: 317 PROFILE: 61

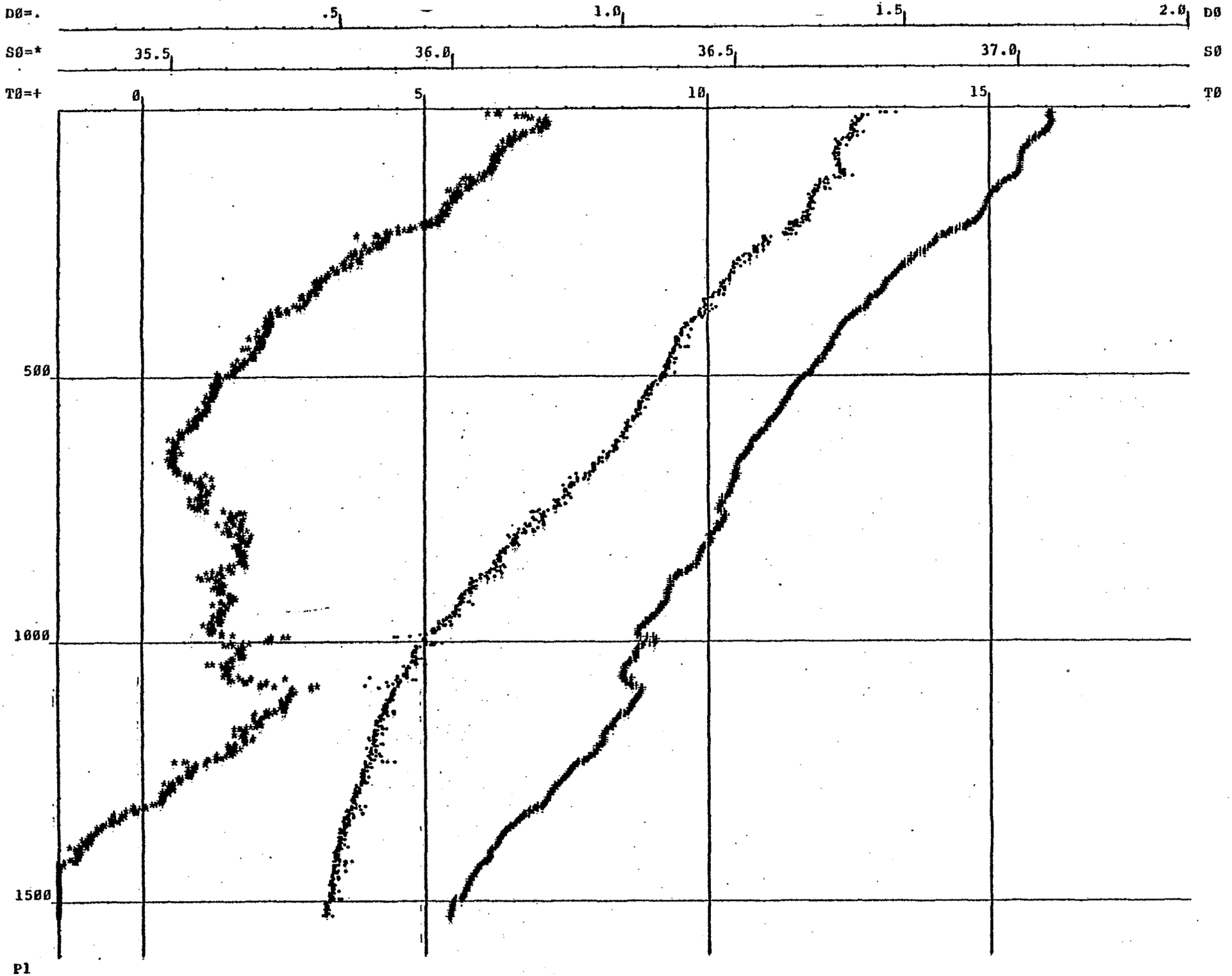



POSEIDON 86 DATE: 8. 4.82 STATION: 318 PROFILE: 62
DØ=.
.5
1.Ø
1.5
2.Ø
DØ
SØ=*
35.5
36.Ø
36.5
37.Ø
SØ
TØ=+
Ø
5
1Ø
15
TØ
5ØØ
1ØØØ
15ØØ
PI

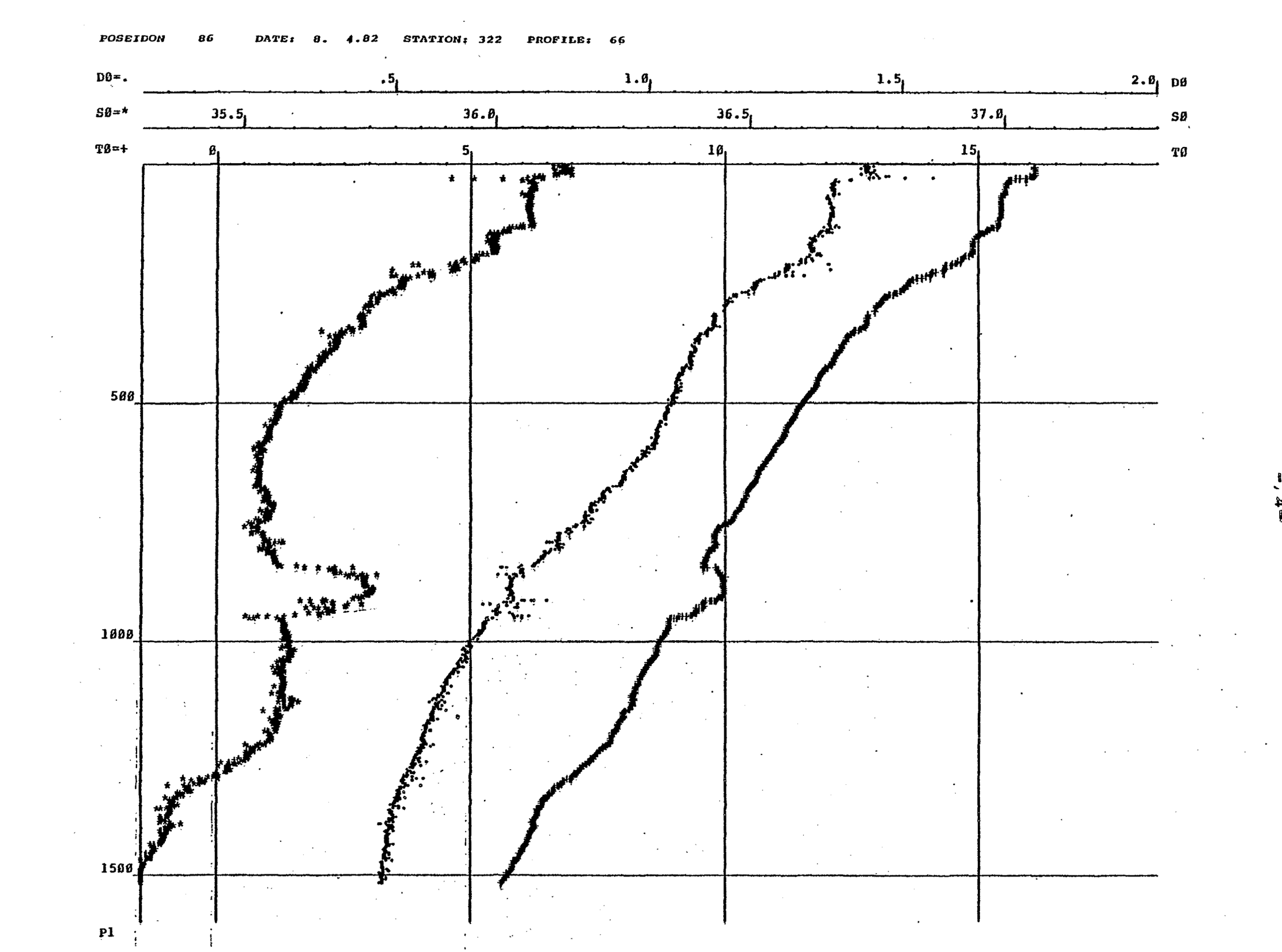

DØ=.
.5
1.Ø
1.5
2.Ø
DØ
SØ=*
35.5
36.Ø
36.5
37.Ø
SØ
TØ=+
Ø
5
1Ø
15
TØ
500
1000
1500
P1

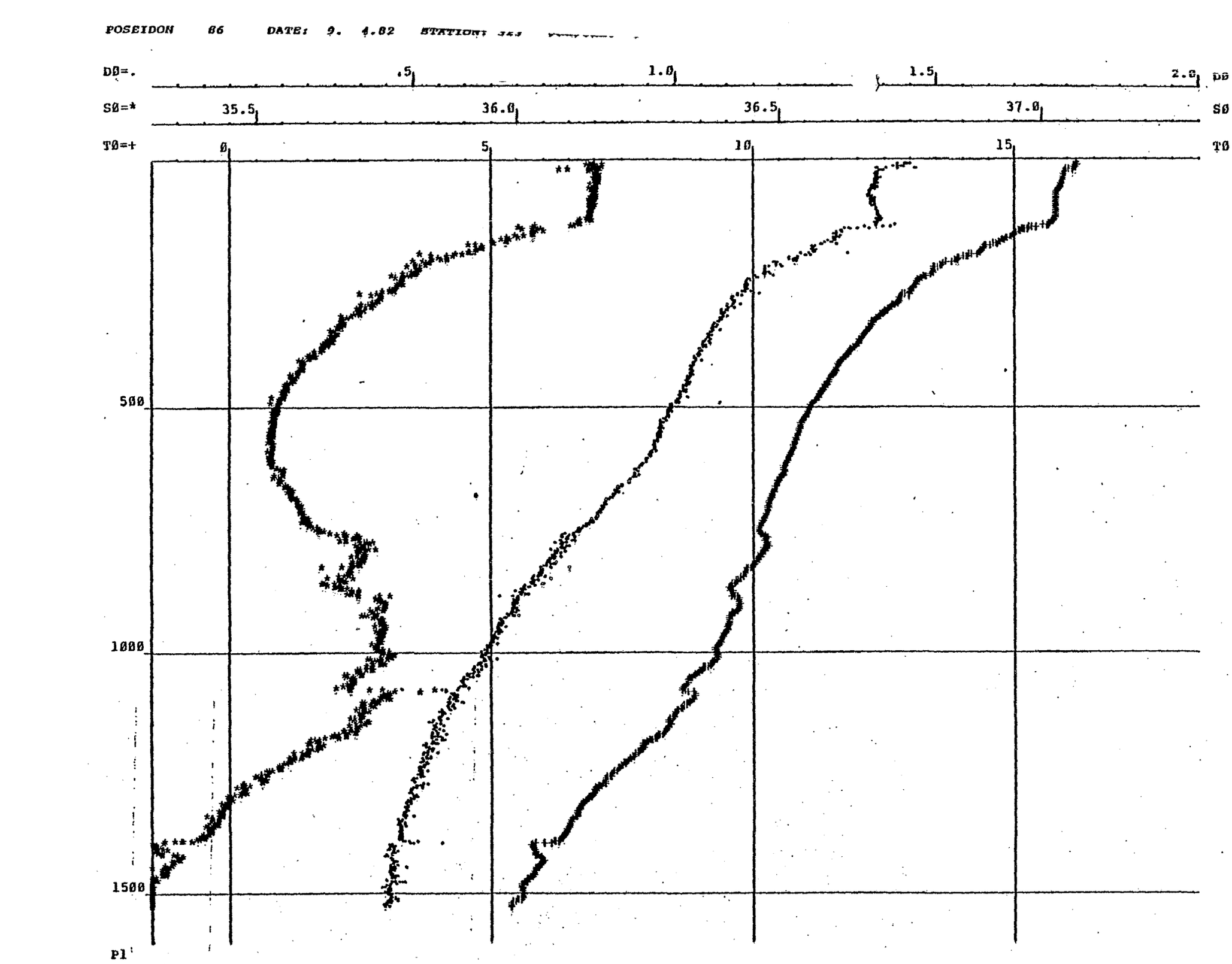

POSEIDON 86 DATE: 8. 4.82 STATION: 320 PROFILE: 64
D0=.
.5
1.0
1.5
2.0
D0
S0=*
35.5
36.0
36.5
37.0
S0
T0=+
0
5
10
15
T0
500
1000
1500
P1

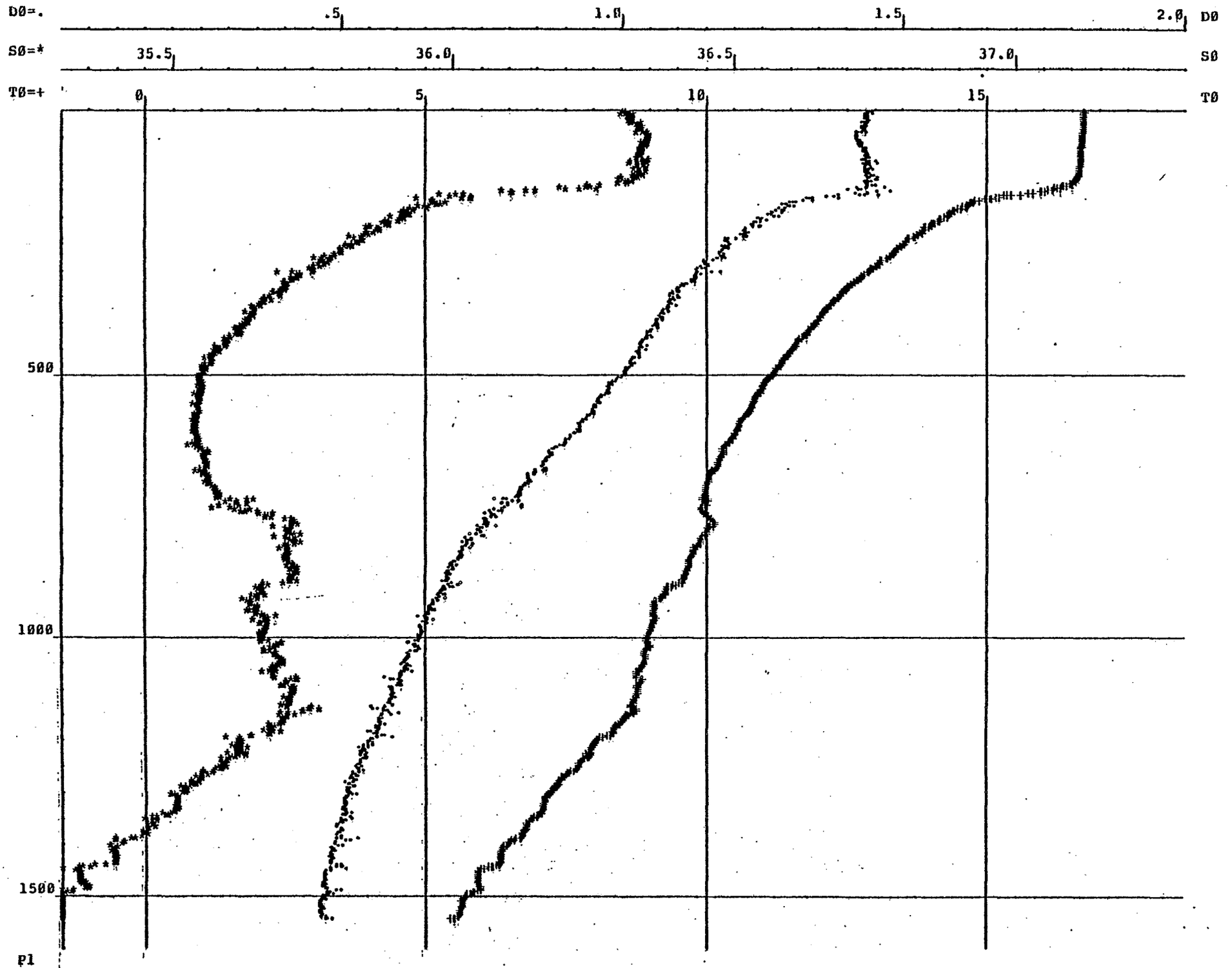
POSEIDON 86 DATE: 8. 4.82 STATION: 321 PROFILE: 65

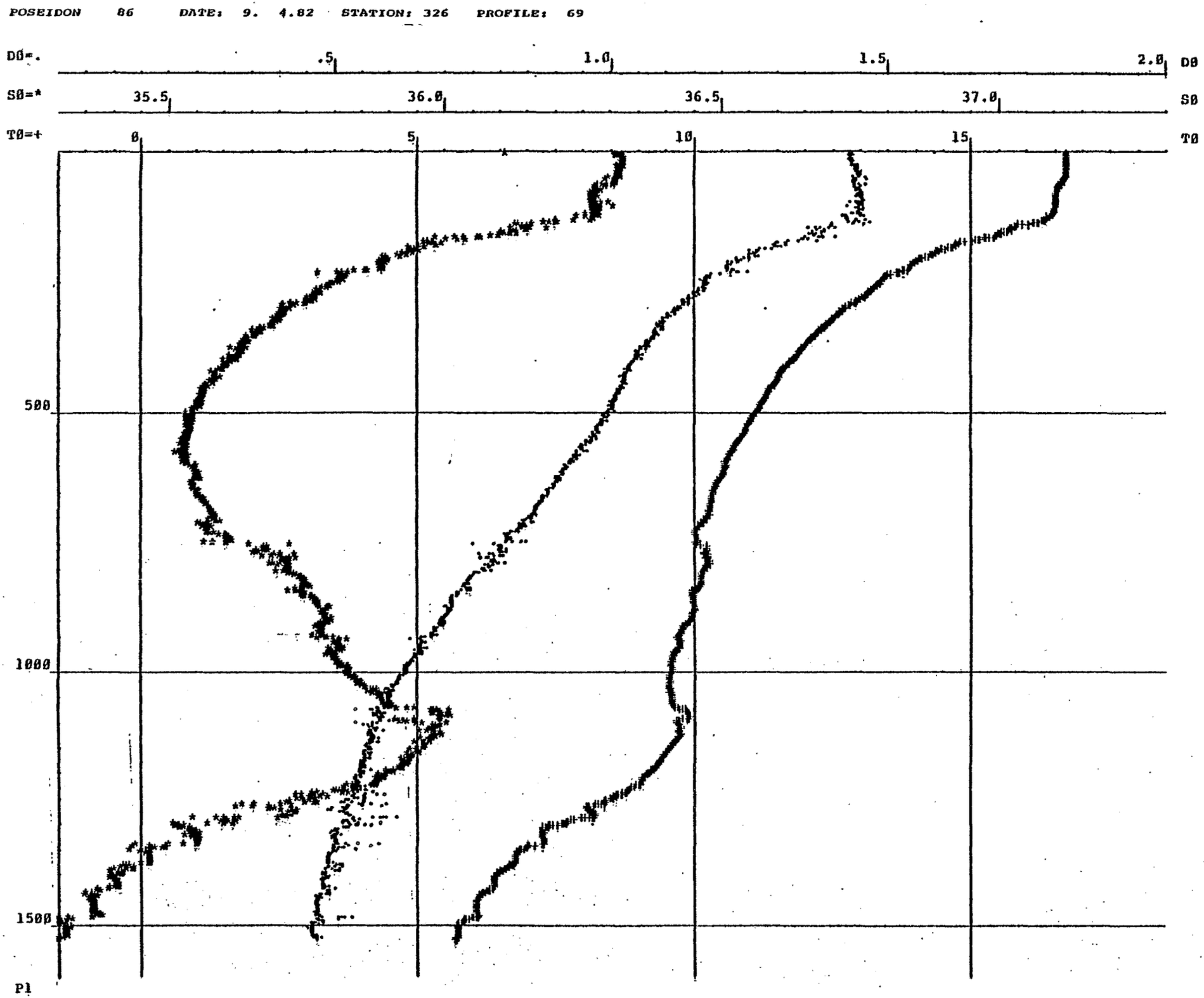


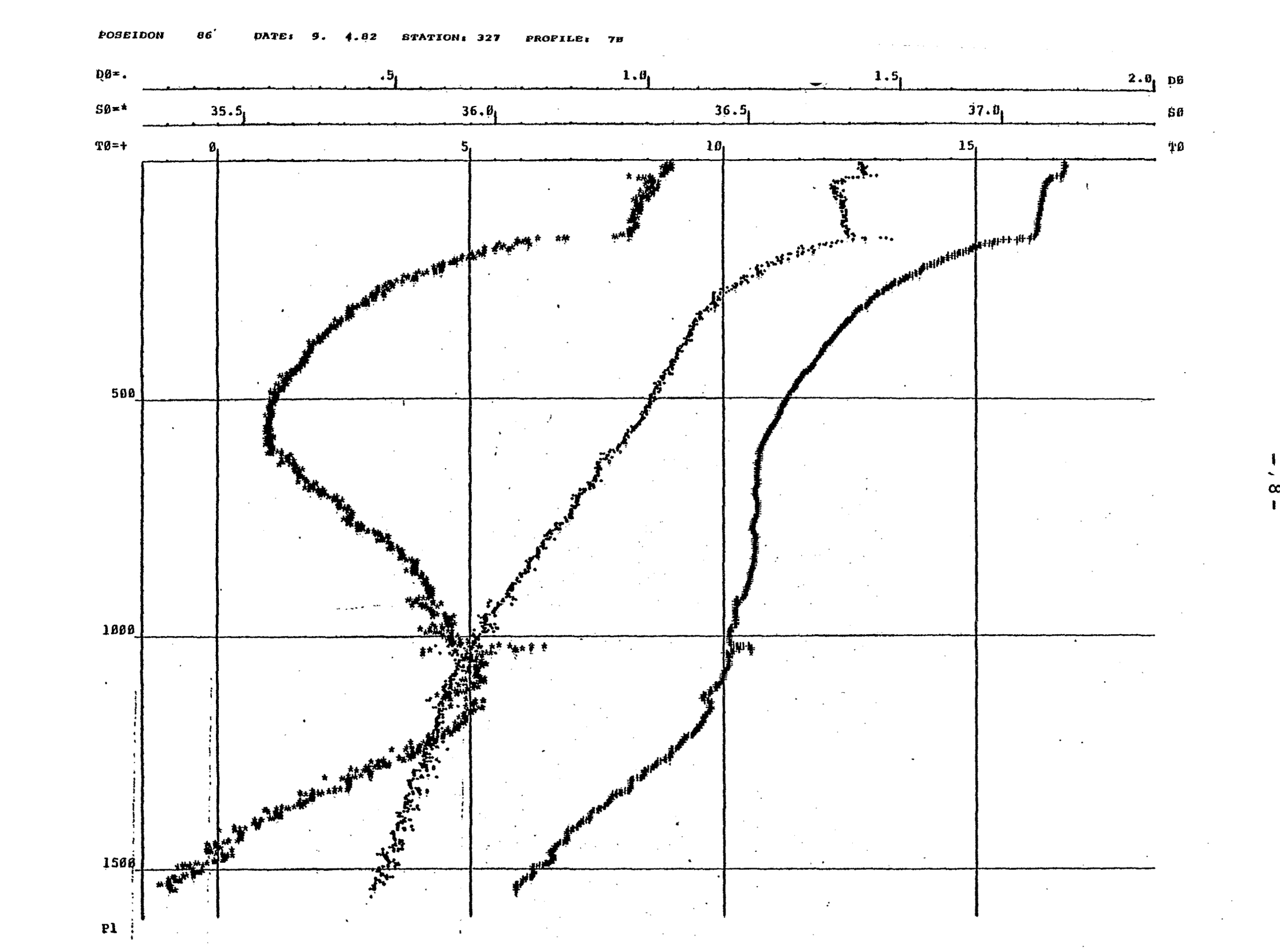
P1


POSEIDON 86 DATE: 8. 4.82 STATION: 322 PROFILE: 66
D0=.
.5
1.0
1.5
2.0
D0
S0=*
35.5
36.0
36.5
37.0
S0
T0=+
0
5
10
15
T0
500
1000
1500
P1

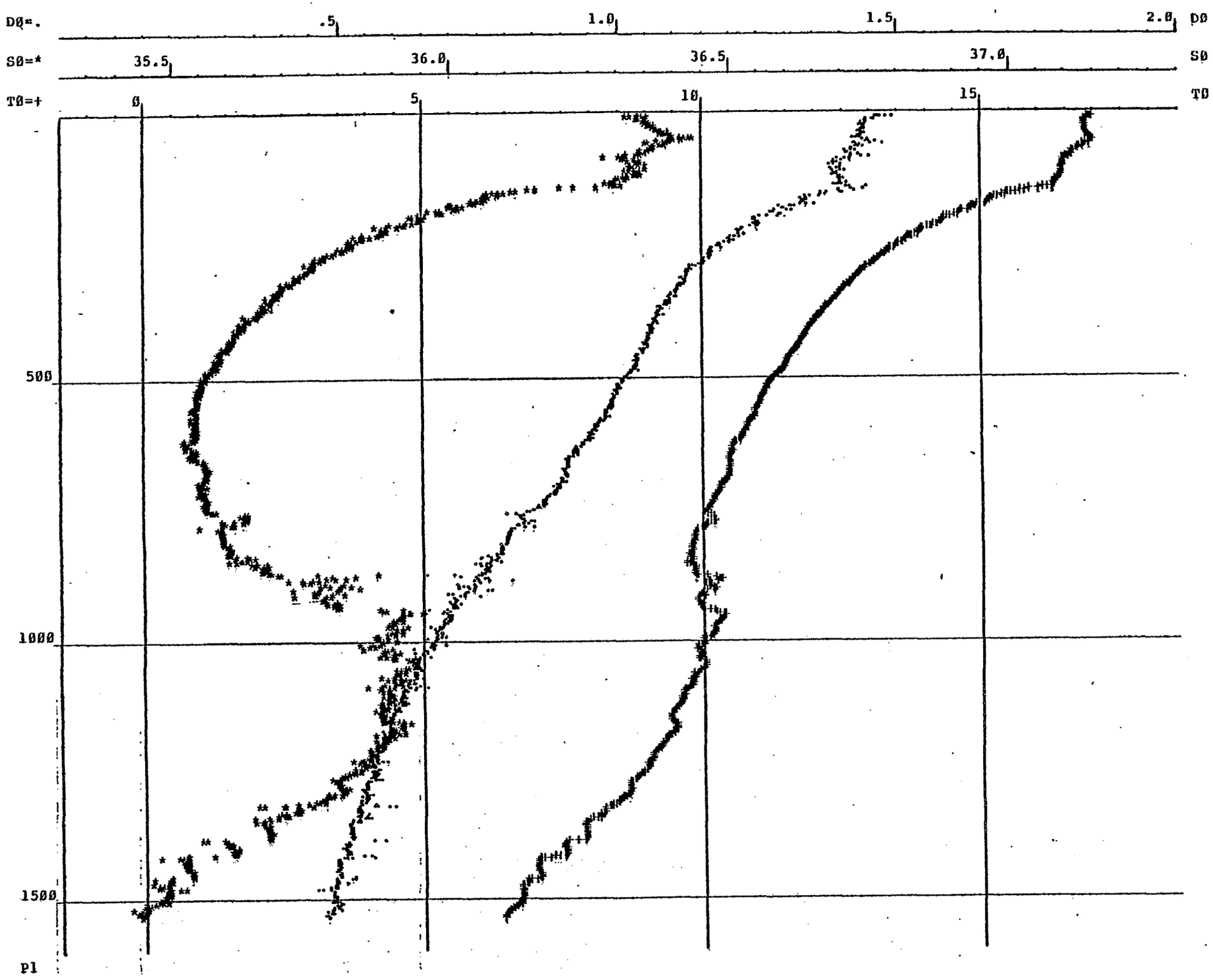

POSEIDON 66 DATE: 9. 4.82 STATION: 343
DØ=.
.5
1.0
1.5
2.0
DØ
SØ=*
35.5
36.0
36.5
37.0
SØ
TØ=+
0
5
10
15
TØ
500
1000
1500
Pl


POSEIDON 86 DATE: 9. 4.82 STATION: 324 PROFILE: 60
D0=.
.5
1.0
1.5
2.0
D0
S0=*
35.5
36.0
36.5
37.0
S0
T0=+
0
5
10
15
T0
500
1000
1500
P1

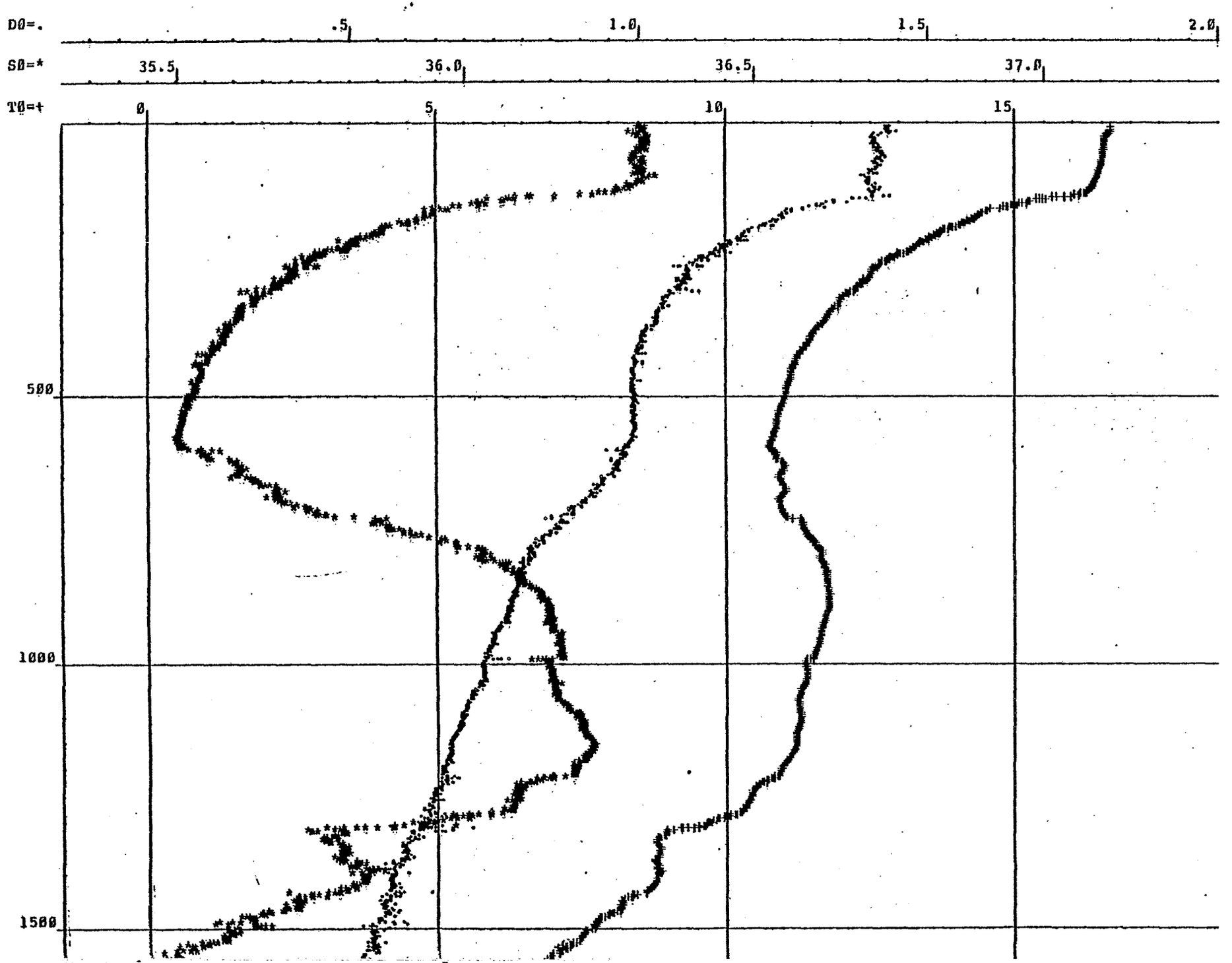

POSEIDON 86 DATE: 9. 4.82 STATION: 326 PROFILE: 69
DØ=. .5 1.0 1.5 2.0 DØ
SØ=* 35.5 36.0 36.5 37.0 SØ
TØ=+ 0 5 10 15 TØ
500
1000
1500
P1

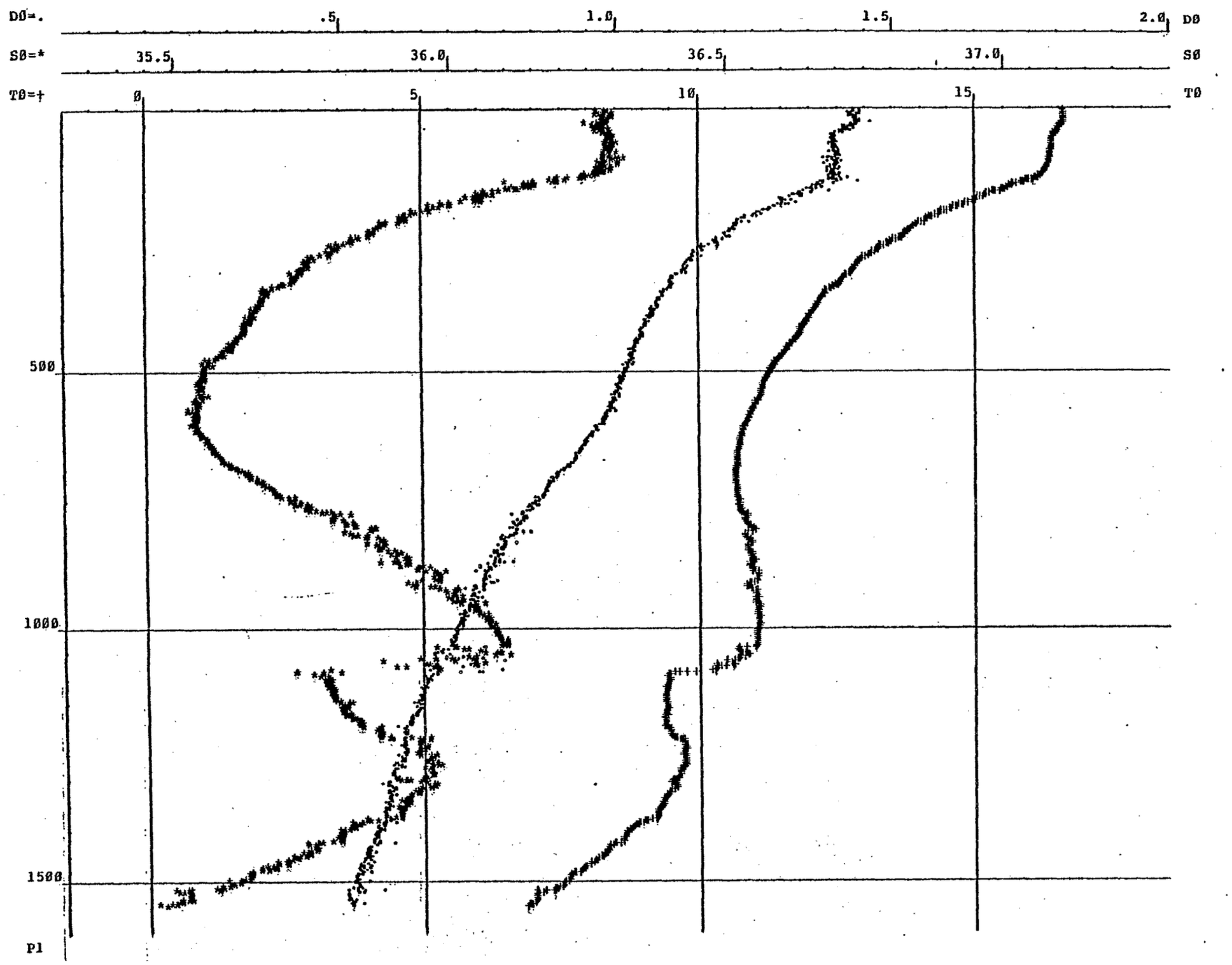

POSEIDON 86 DATE: 9. 4.82 STATION: 327 PROFILE: 78
D0=.
.5
1.0
1.5
2.0
D0
S0=*
35.5
36.0
36.5
37.0
S0
T0=+
0
5
10
15
T0
500
1000
1500
P1

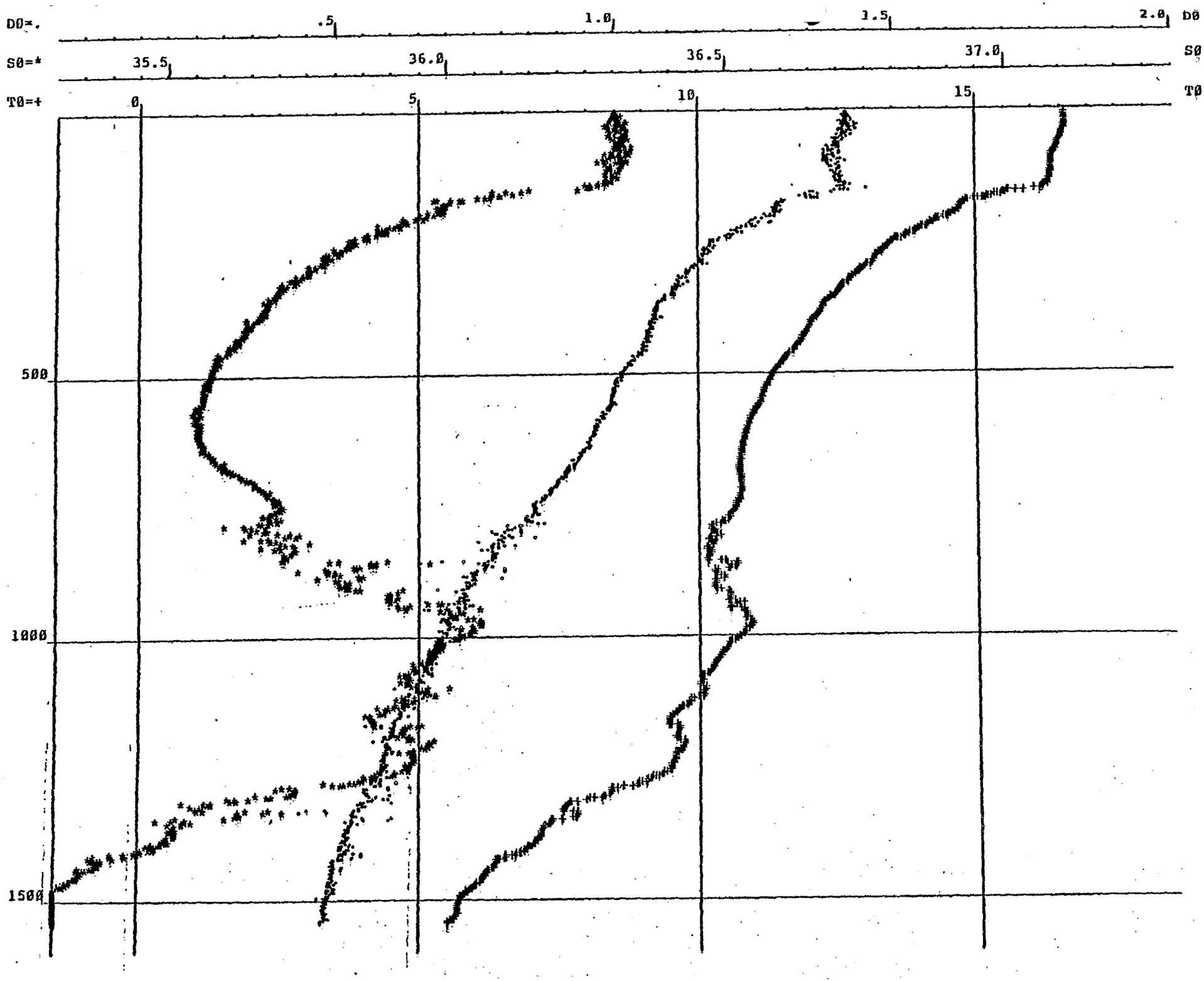
POSEIDON 86 DATE: 9. 4.82 STATION: 328 PROFILE: 71

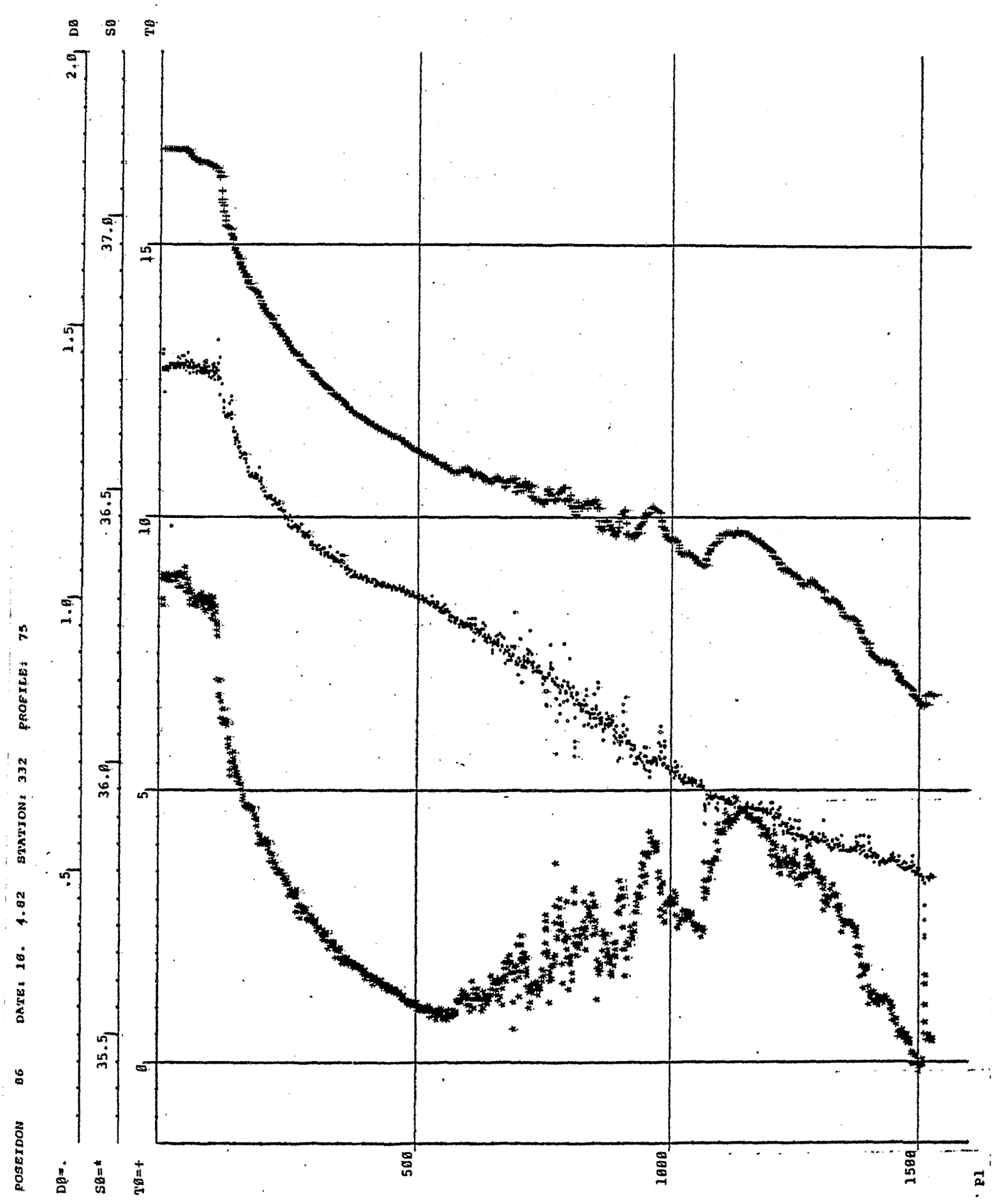


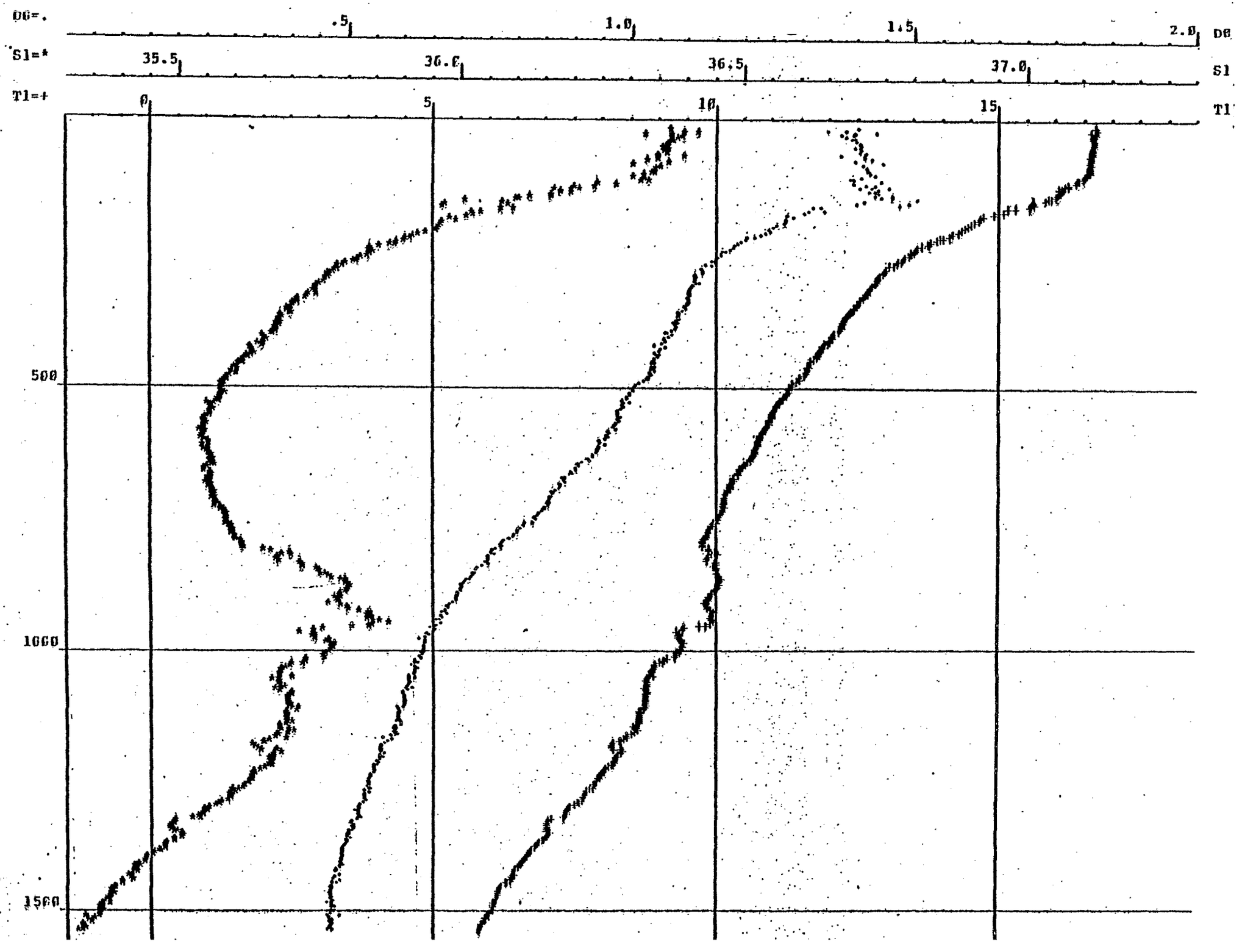
POSEIDON 86 DATE: 9. 4.82 STATION: 329 PROFILE: 72

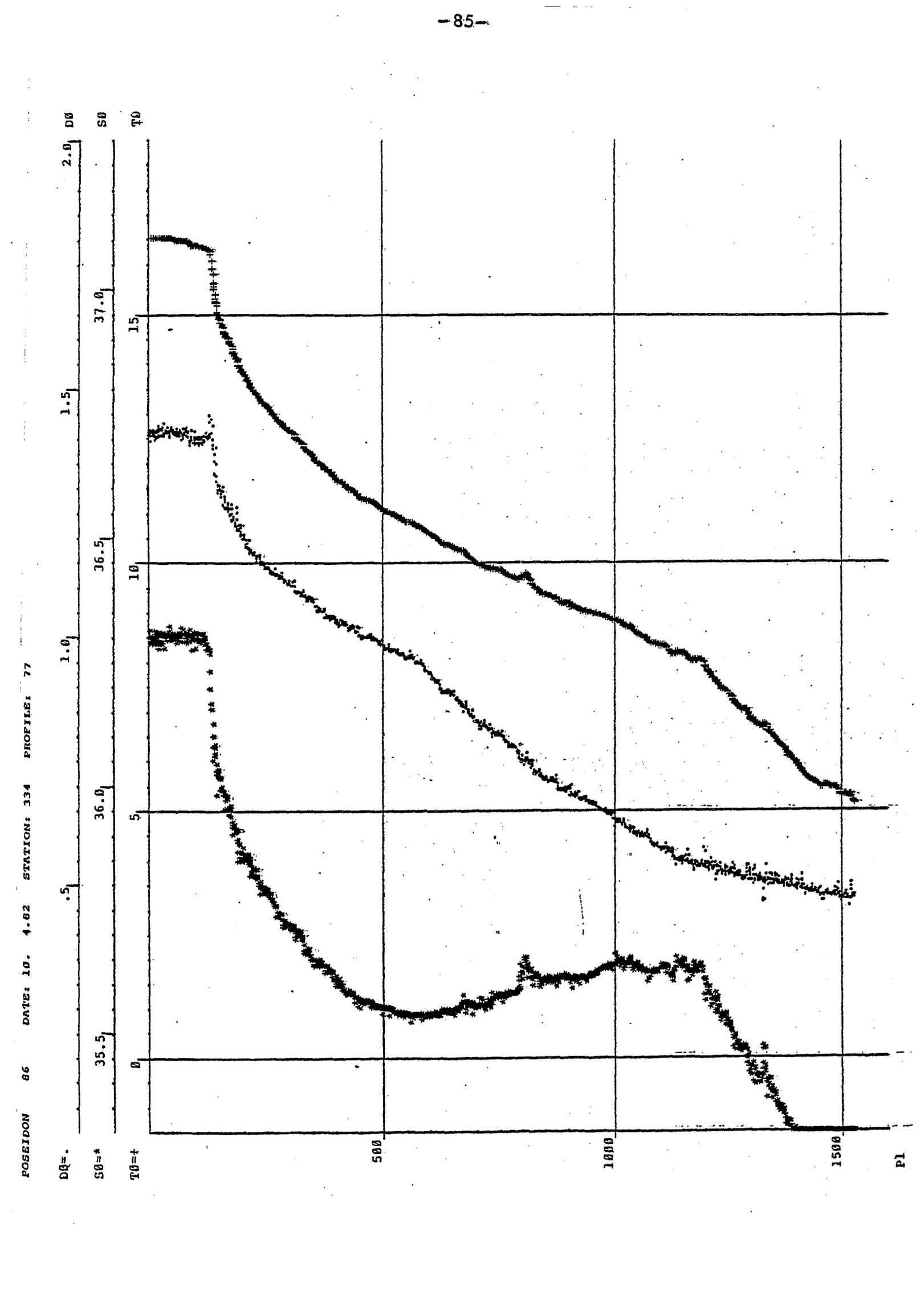


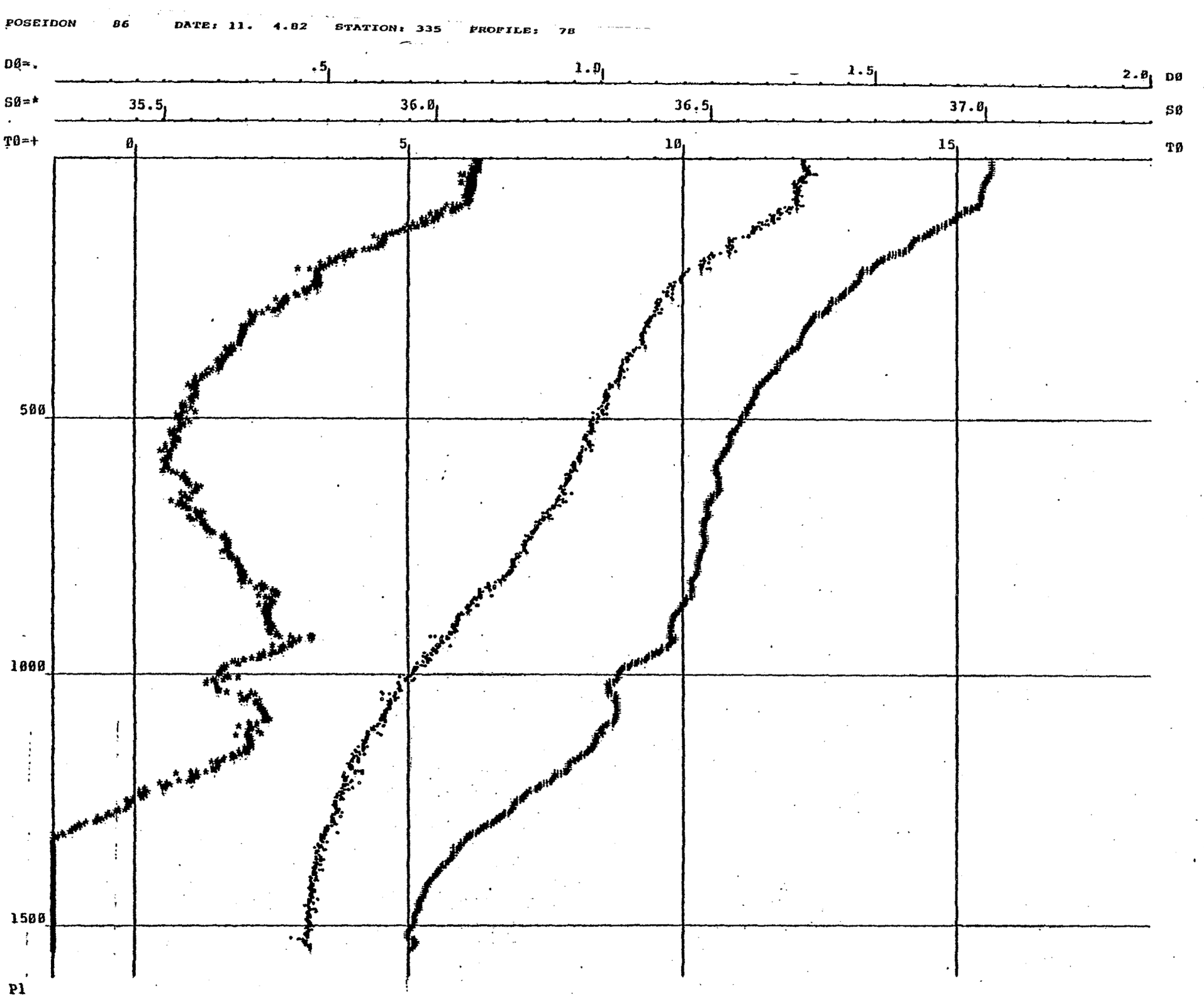

POSEIDON 86 DATE: 10. 4.82 STATION: 330 PROFILE: 73
DØ=.
SØ=*
TØ=+
.5
1.0
1.5
2.0
35.5
36.0
36.5
37.0
Ø
5
10
15
500
1000
1500
P1

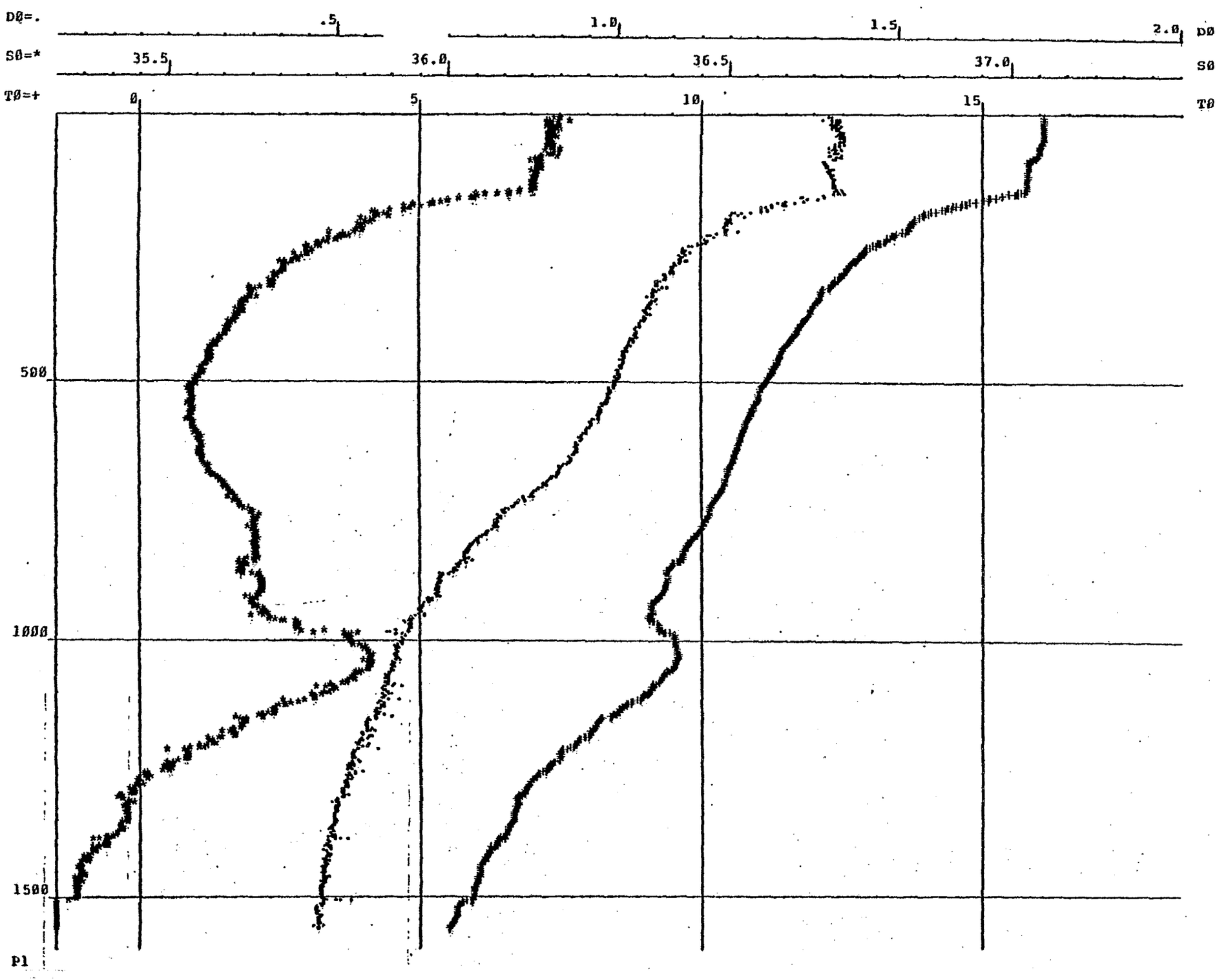

POSEIDON 86 DATE: 10. 4.82 STATION: 331 PROFILE: 74
DØ=.
.5
1.0
1.5
2.0
DØ
SØ=*
35.5
36.0
36.5
37.0
SØ
TØ=+
0
5
10
15
TØ
500
1000
1500

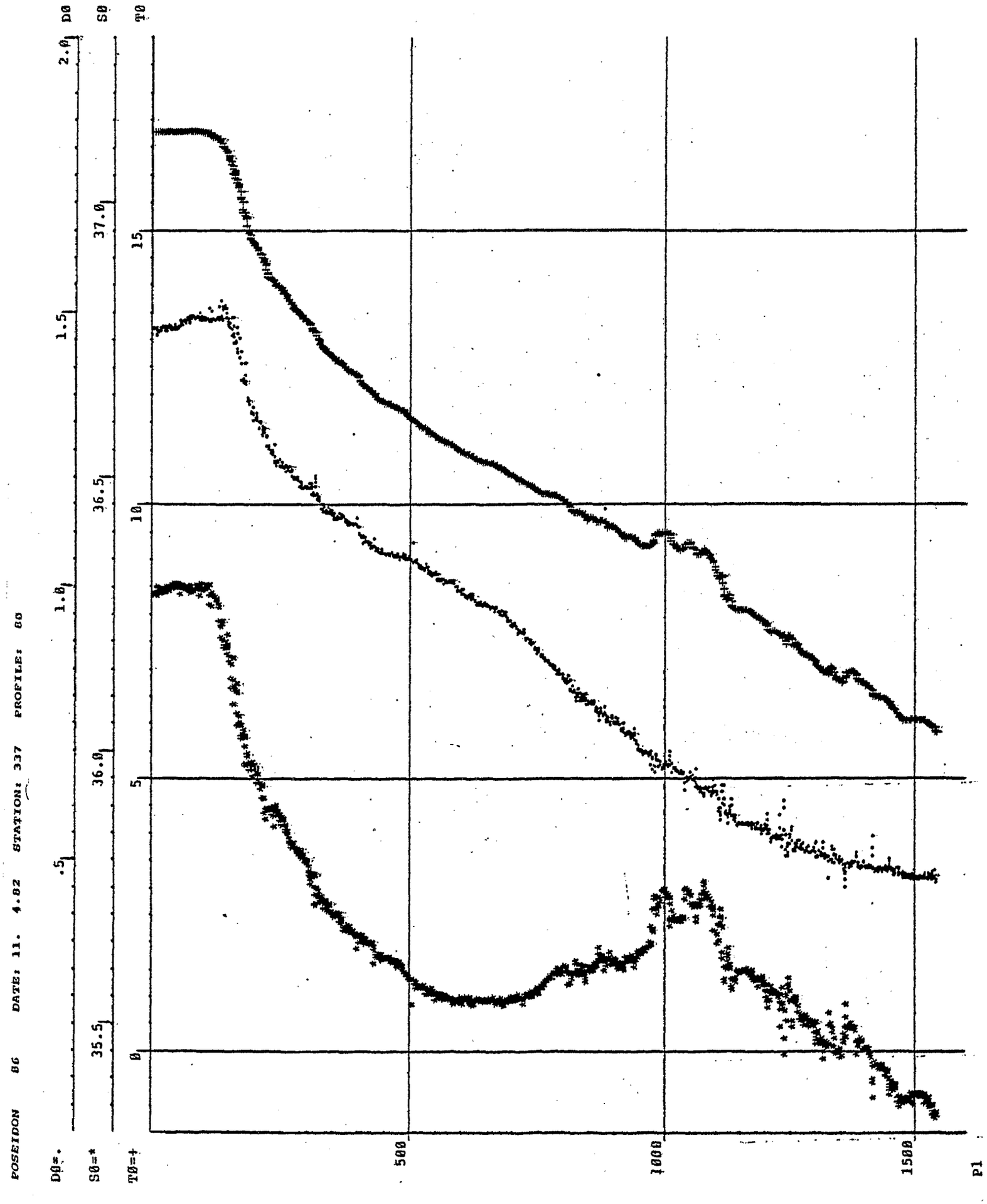

POSEIDON 86 DATE: 10. 4.82 STATION: 332 PROFILE: 75
DØ=.
SØ=+
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
1Ø
5
Ø
5ØØ
1ØØØ
15ØØ
P1

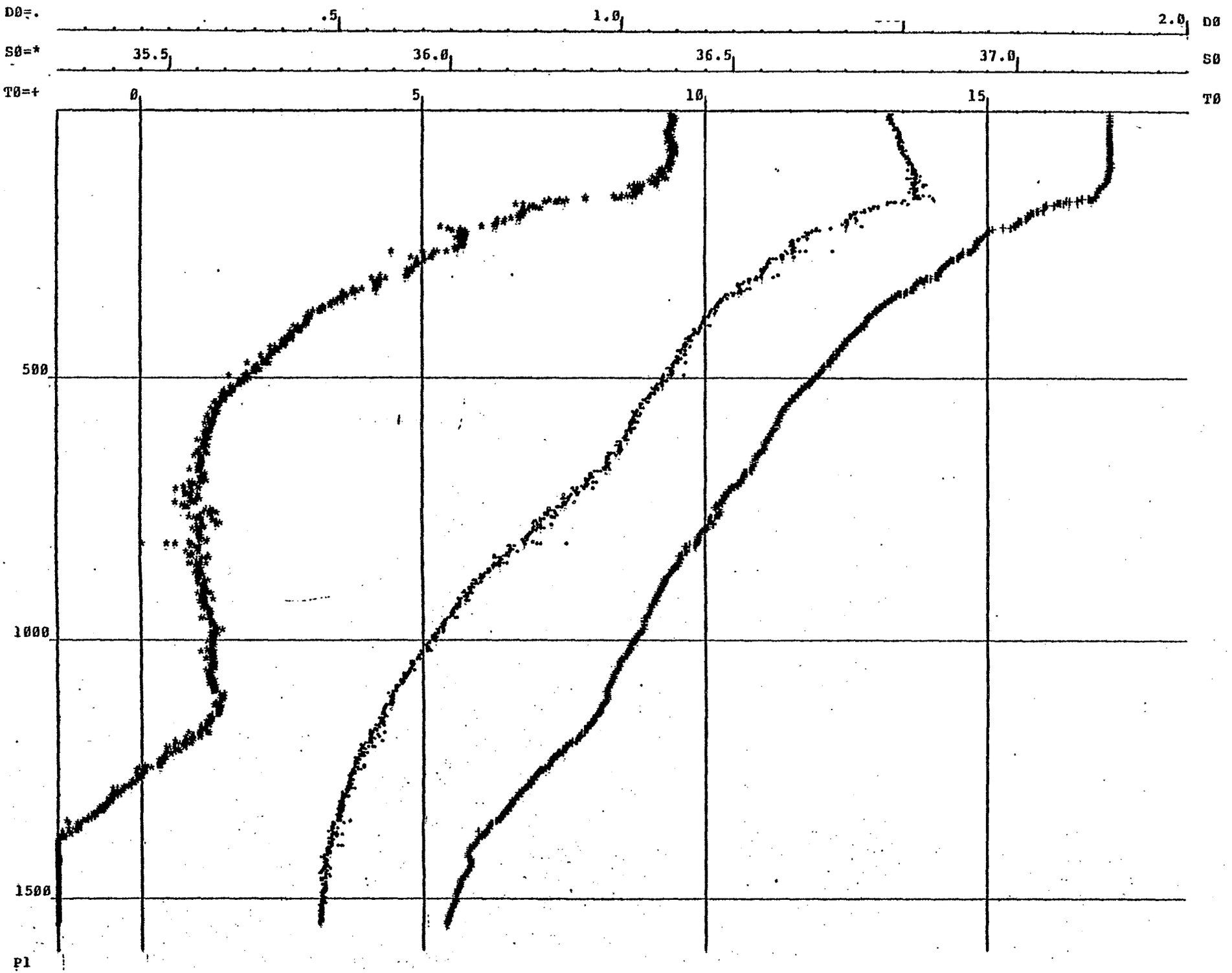

DD=.
.5
1.0
1.5
2.0
DD
S1=*
35.5
36.0
36.5
37.0
S1
T1=+
0
5
10
15
T1
500
1000
1500

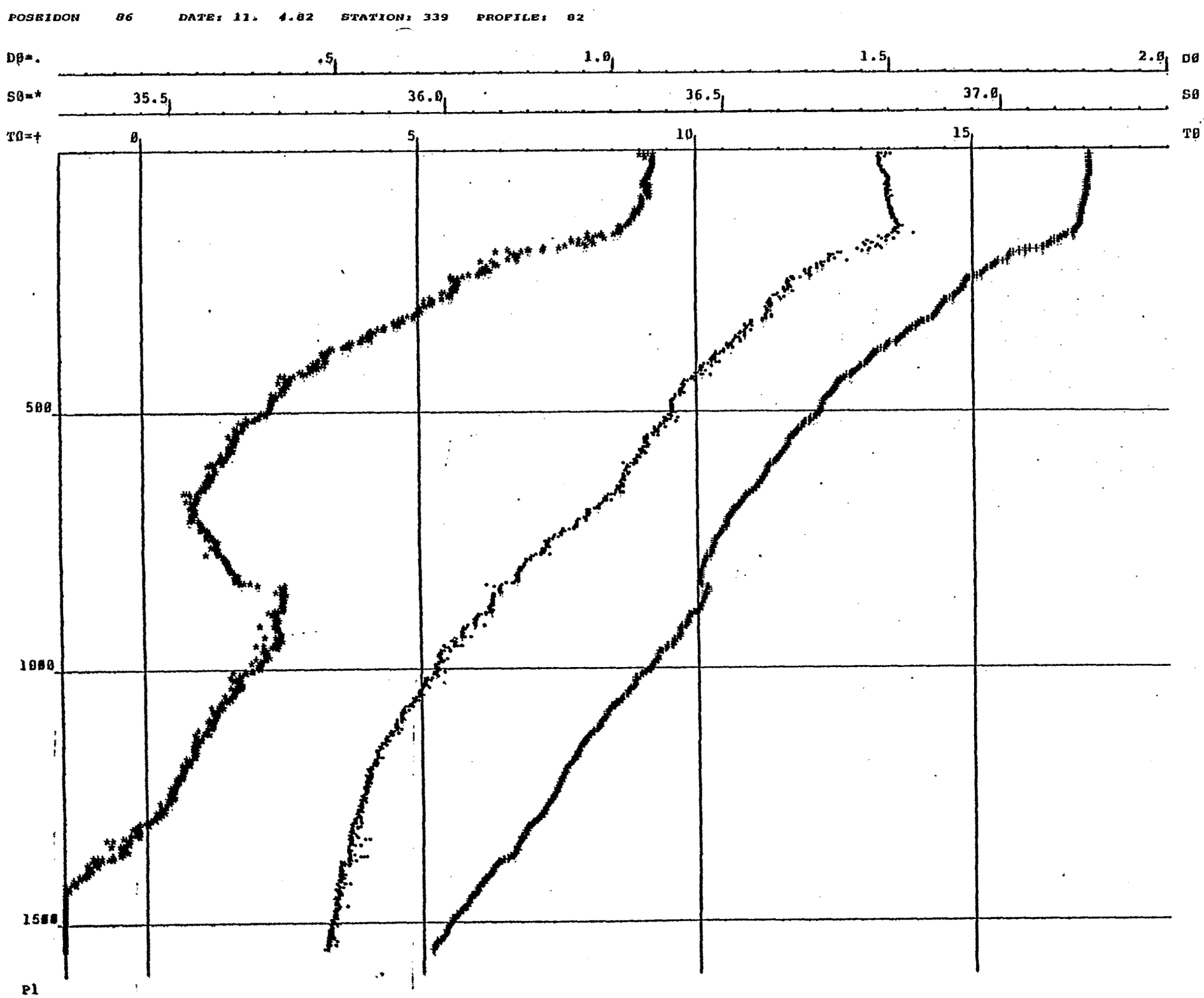

POSEIDON 86 DATE: 10. 4.82 STATION: 334 PROFILE: 77
DQ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
37.Ø
36.5
36.Ø
35.5
15
10
5
Ø
5ØØ
1ØØØ
15ØØ
P1

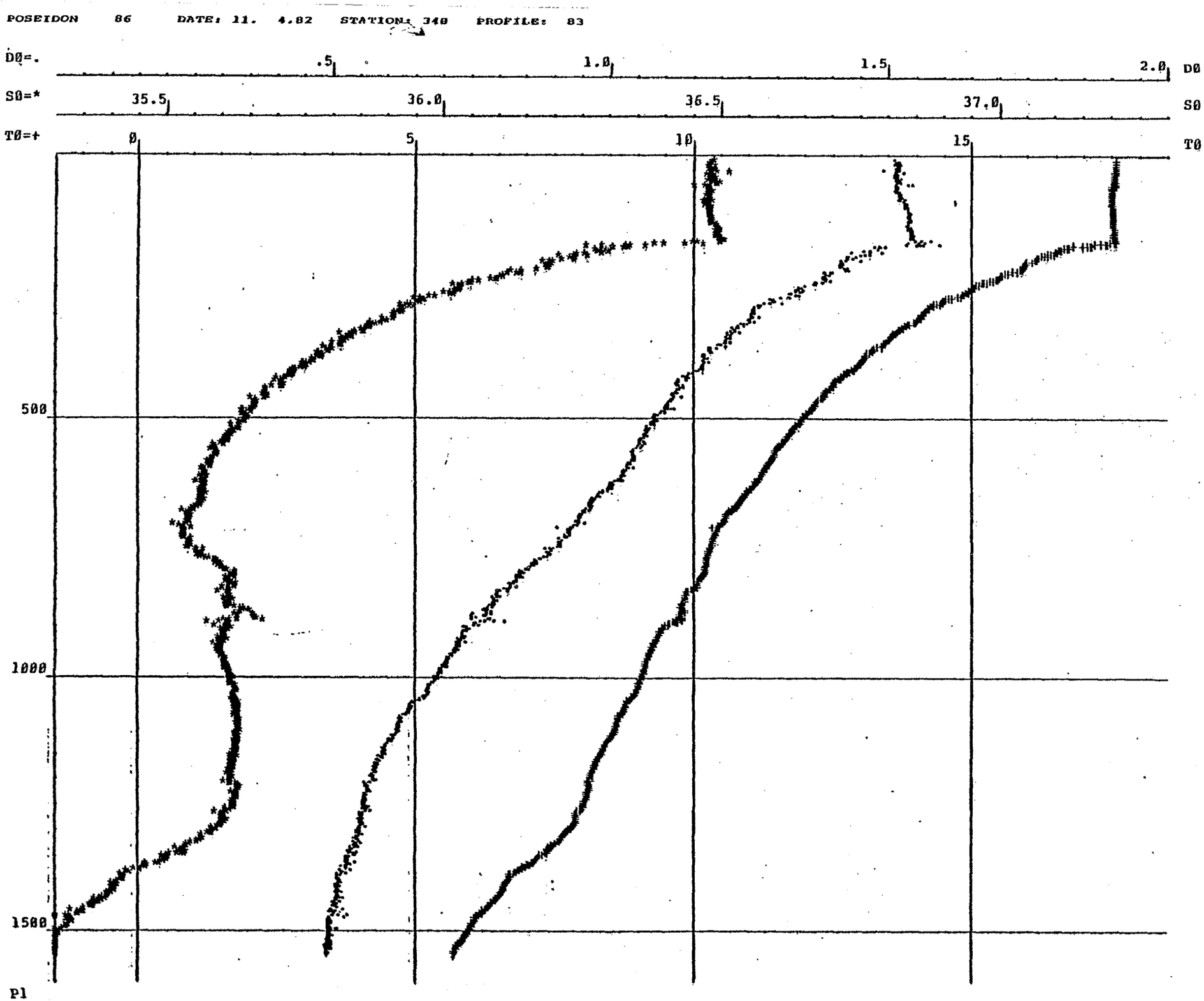

POSEIDON 86 DATE: 11. 4.82 STATION: 335 PROFILE: 78
DØ=.
.5
1.0
1.5
2.0
DØ
SØ=*
35.5
36.0
36.5
37.0
SØ
TØ=+
Ø
5
10
15
TØ
500
1000
1500
P1

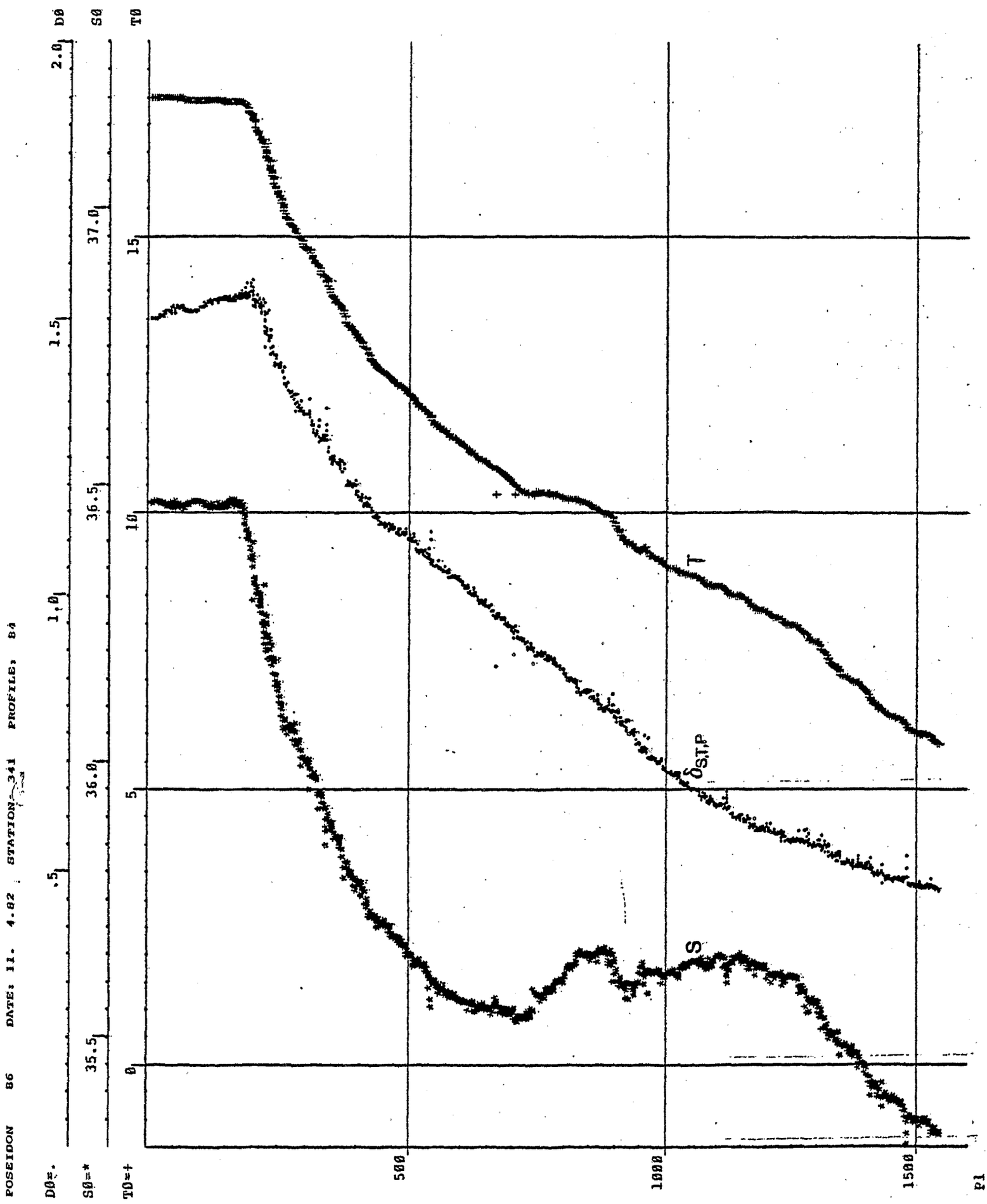

POSEIDON 86 DATE: 11. 4.82 STATION: 336 PROFILE: 79
DØ=.
SØ=*
TØ=+
.5
1.0
1.5
2.0
DØ
35.5
36.0
36.5
37.0
SØ
0
5
10
15
TØ
500
1000
1500
P1


POSEIDON 86 DATE: 11. 4.82 STATION: 337 PROFILE: 60
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.Ø
1.5
1.Ø
.5
Ø
37.Ø
36.5
36.Ø
35.5
15
10
5
Ø
500
1000
1500
P1


POSEIDON 86 DATE: 11. 4.82 STATION: 338 PROFILE: 81
DØ=.
.5
1.Ø
2.Ø
DØ
SØ=*
35.5
36.Ø
36.5
37.Ø
SØ
TØ=+
Ø
5
1Ø
15
TØ
5ØØ
1ØØØ
15ØØ
Pl

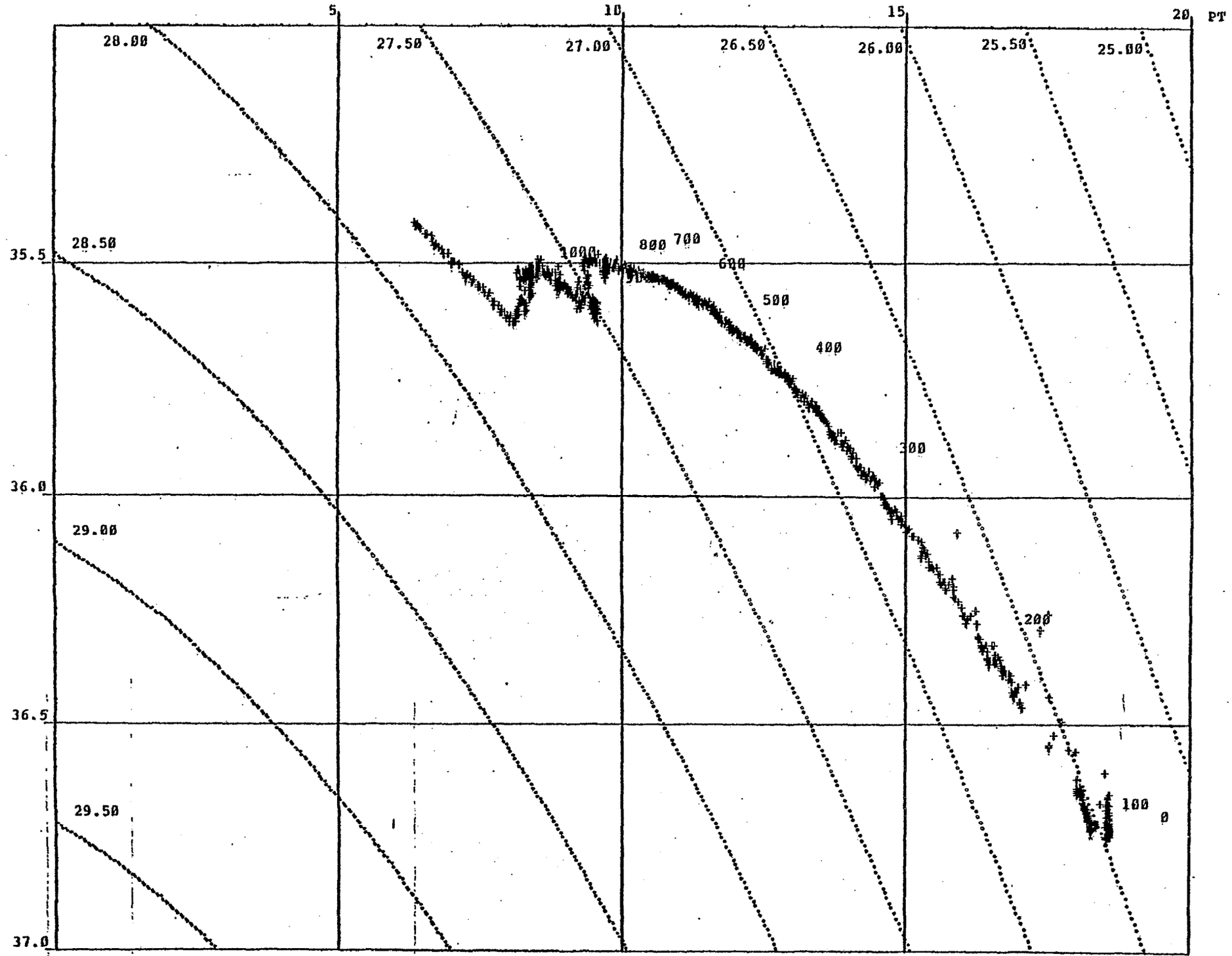

POSEIDON 86 DATE: 11. 4.82 STATION: 339 PROFILE: 02
DØ=. .5 1.0 1.5 2.0 DØ
SØ=* 35.5 36.0 36.5 37.0 SØ
TØ=† Ø 5 10 15 TØ
500
1000
1500
Pl

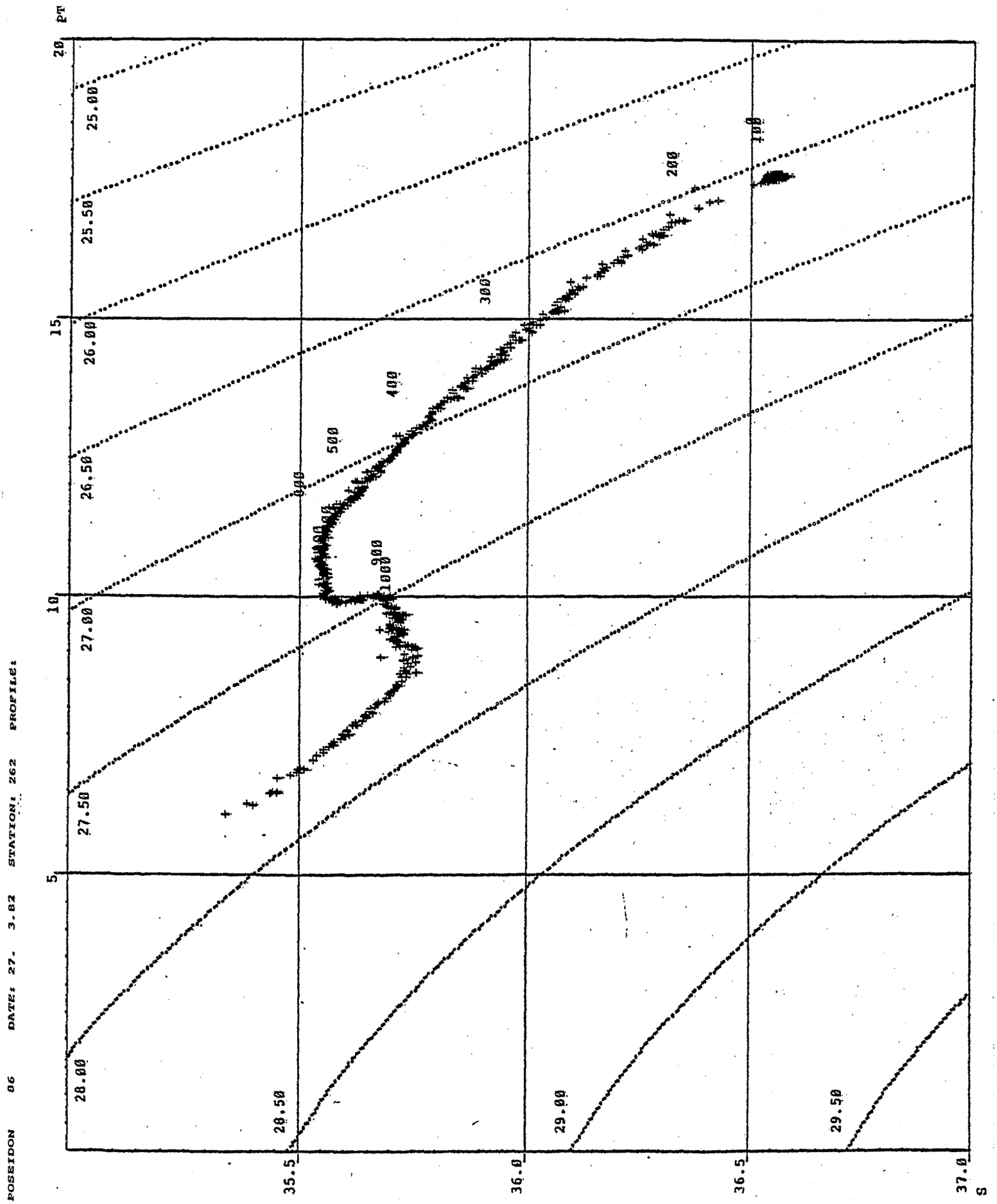

POSEIDON 86 DATE: 11. 4.82 STATION: 348 PROFILE: 83
D0=.
.5
1.0
1.5
2.0
D0
S0=*
35.5
36.0
36.5
37.0
S0
T0=+
0
5
10
15
T0
500
1000
1500
P1

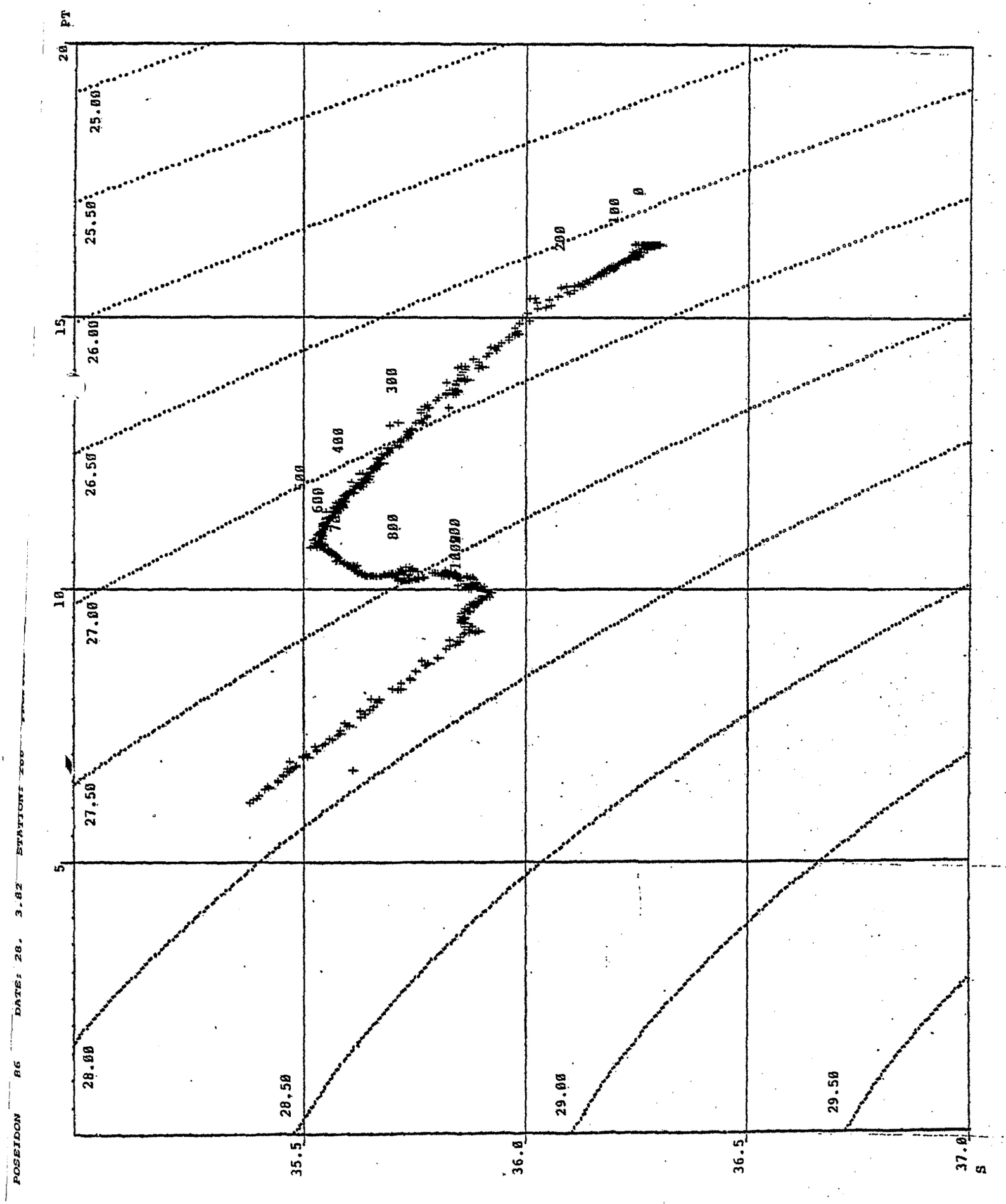

POSEIDON 86 DATE: 11. 4.82 STATION: 341 PROFILE: 84
DØ=.
SØ=*
TØ=+
DØ
SØ
TØ
2.0
1.5
1.0
.5
37.0
36.5
36.0
35.5
15
10
5
0
500
1000
1500
T
$\delta_{ST,P}$
S
P1

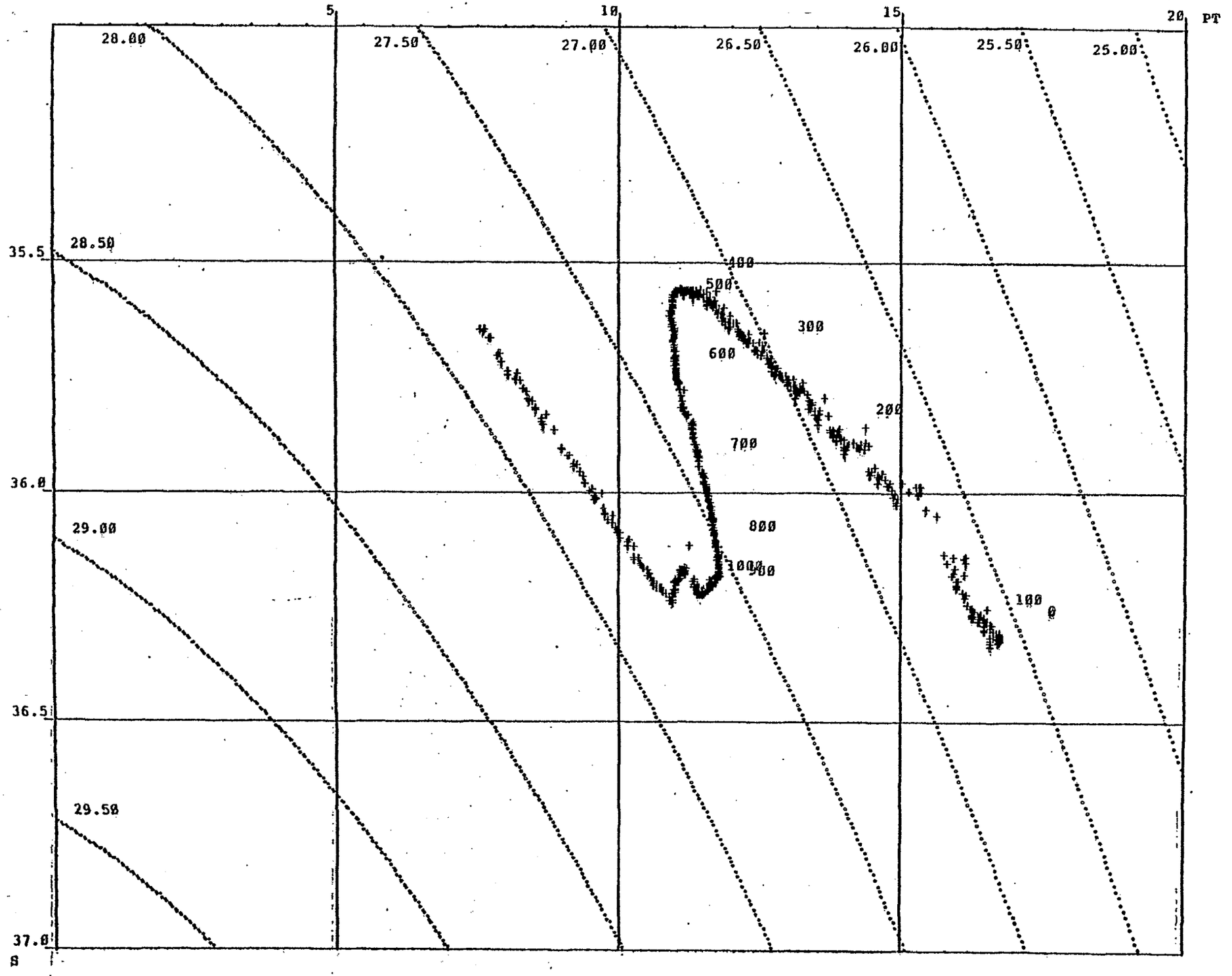
T/S - DIAGRAMMES

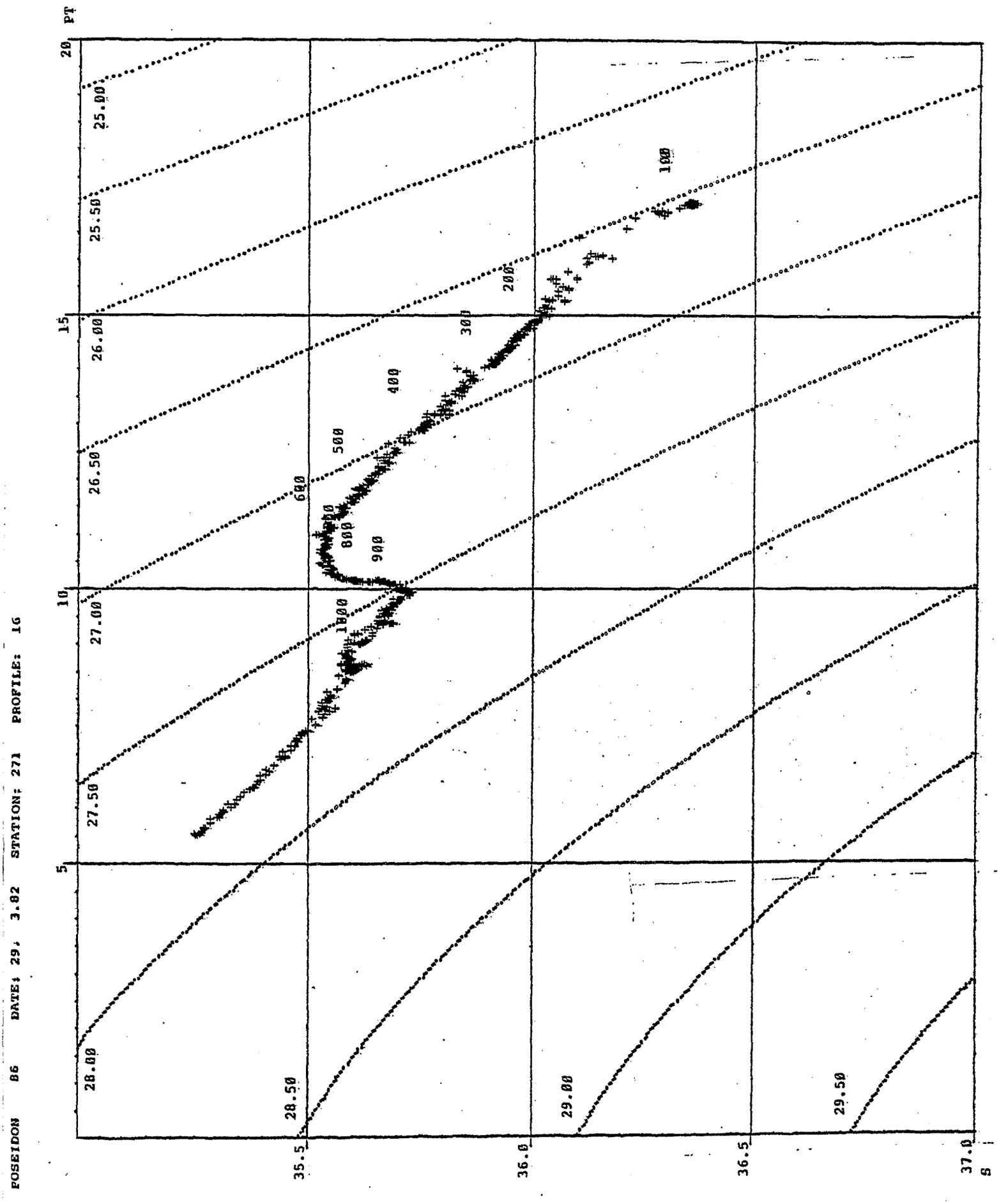
POSEIDON 86 DATE: 26, 3.82 STATION: 259 PROFILE: 4

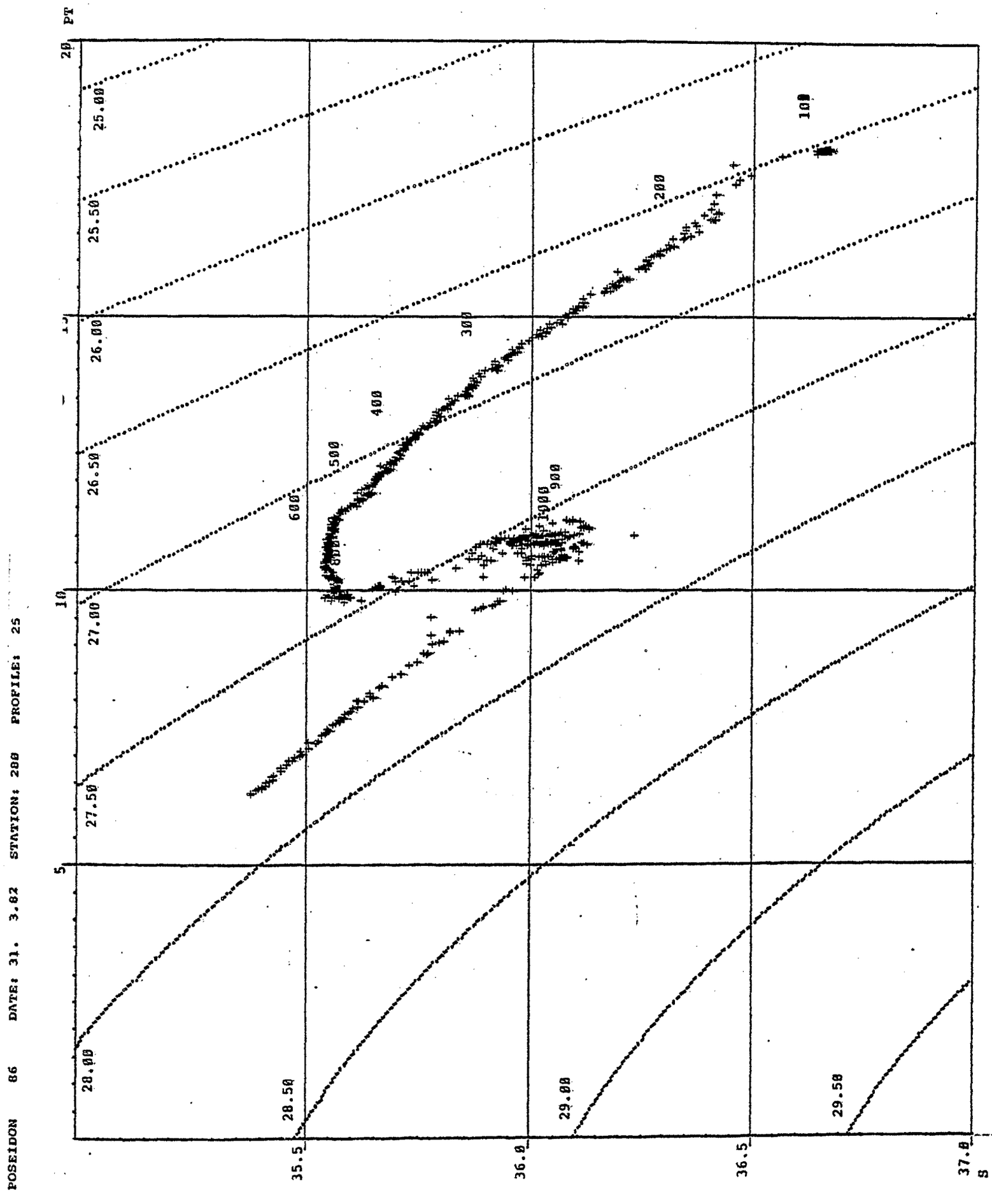


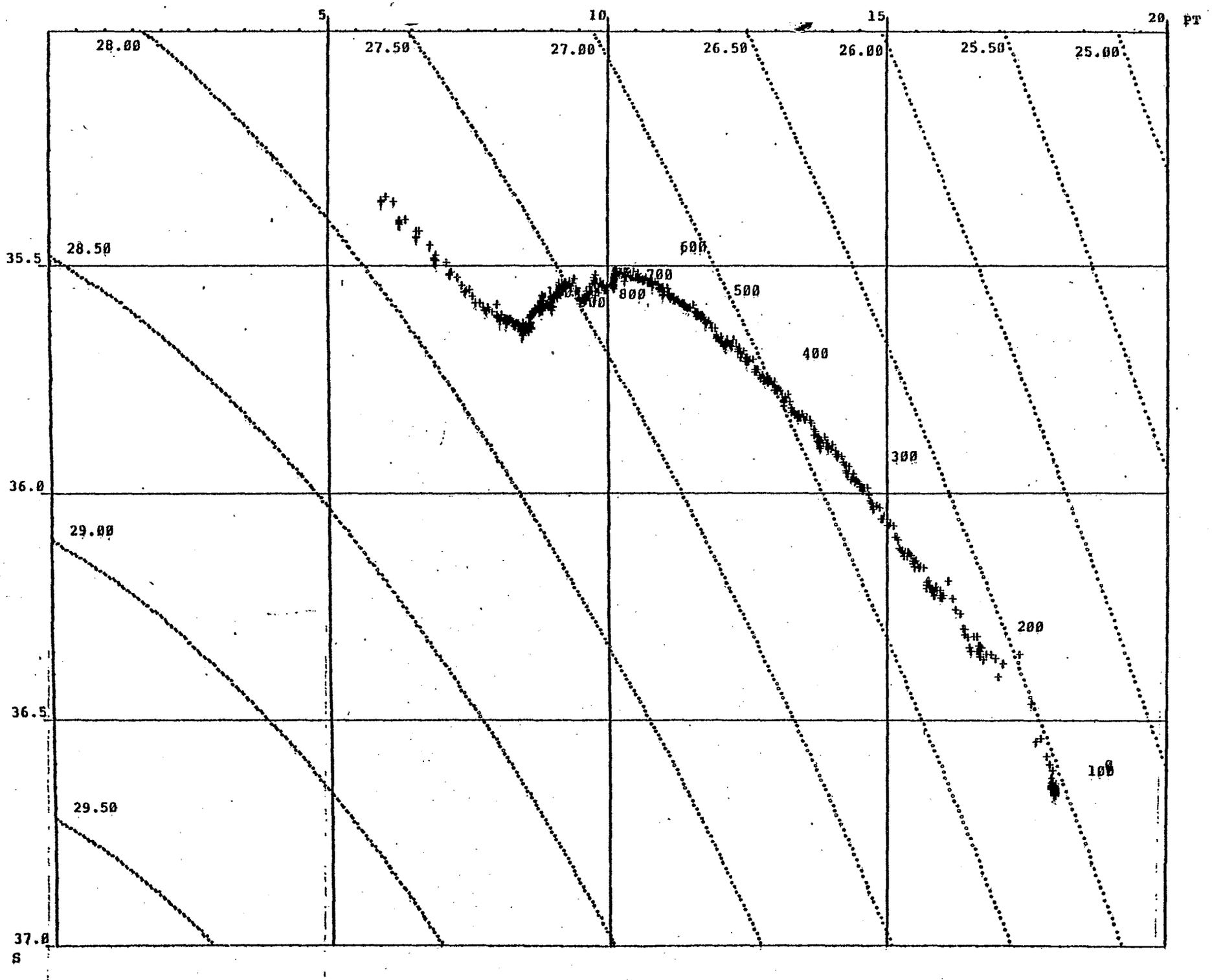

POSEIDON 86 DATE: 27. 3.82 STATION: 262 PROFILE:
PT
S
20
15
10
5
35.5
36.0
36.5
37.0
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
100
200
300
400
500
600
900
1000


POSEIDON 86 DATE: 28. 3.82 STATION 208
PT
20
15
10
5
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
0
100
200
300
400
500
600
700
800
900
1000
35.5
36.0
36.5
37.0
S


5
10
15
20
PT
28.00
27.50
27.00
26.50
26.00
25.50
25.00
28.50
29.00
29.50
35.5
36.0
36.5
37.0
S
400
500
300
600
200
700
800
1000
900
100
0


POSEIDON 86 DATE: 29/ 3.82 STATION: 271 PROFILE: 16
PT
S
20
15
10
5
35.5
36.0
36.5
37.0
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
100
200
300
400
500
600
700
800
900
1000


POSEIDON 86 DATE: 31. 3.82 STATION: 280 PROFILE: 25
PT
S
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
100
200
300
400
500
600
900
1000
35.5
36.0
36.5
37.0
5
10
20


5
10
15
20
PT
28.00
27.50
27.00
26.50
26.00
25.50
25.00
28.50
29.00
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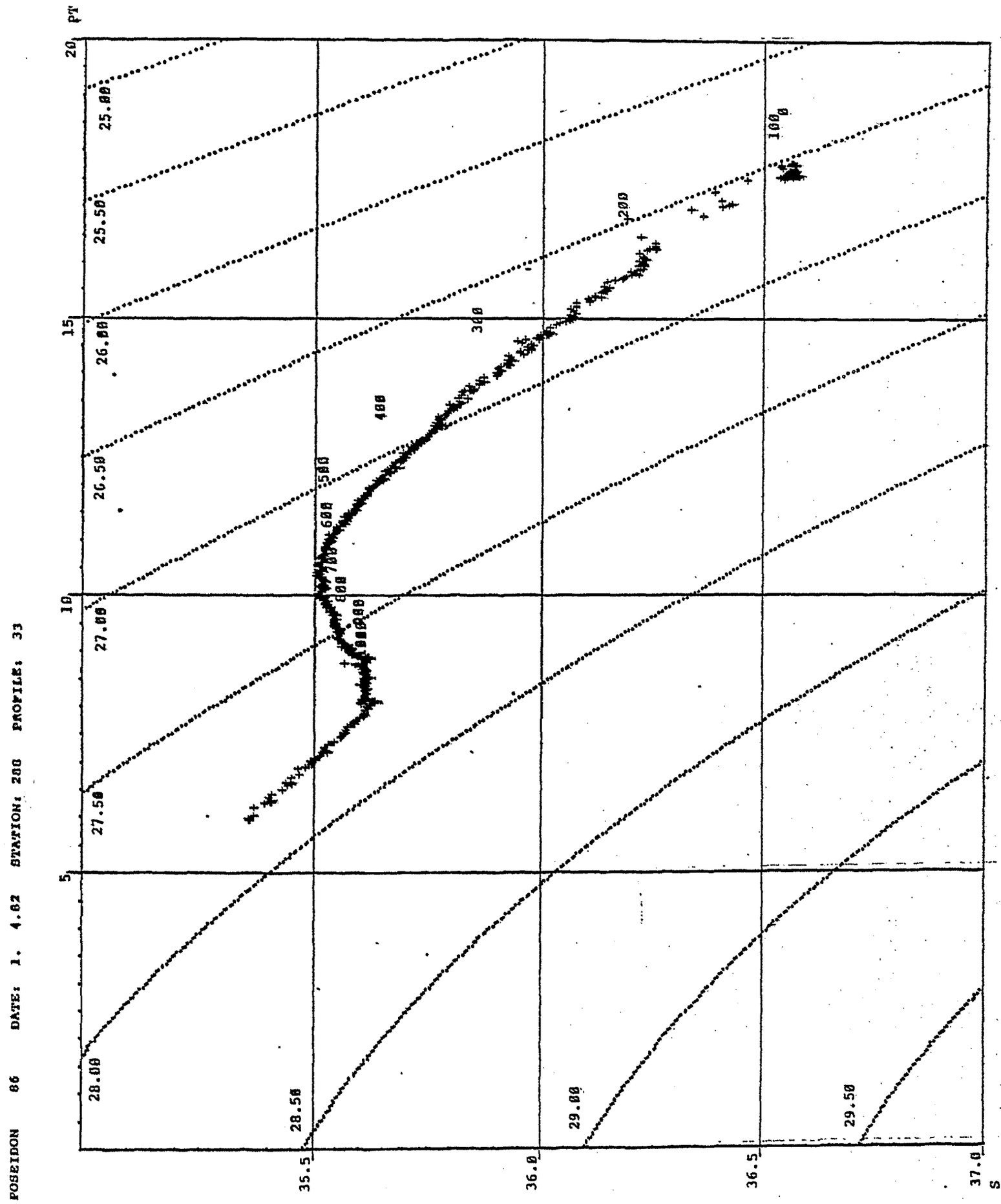
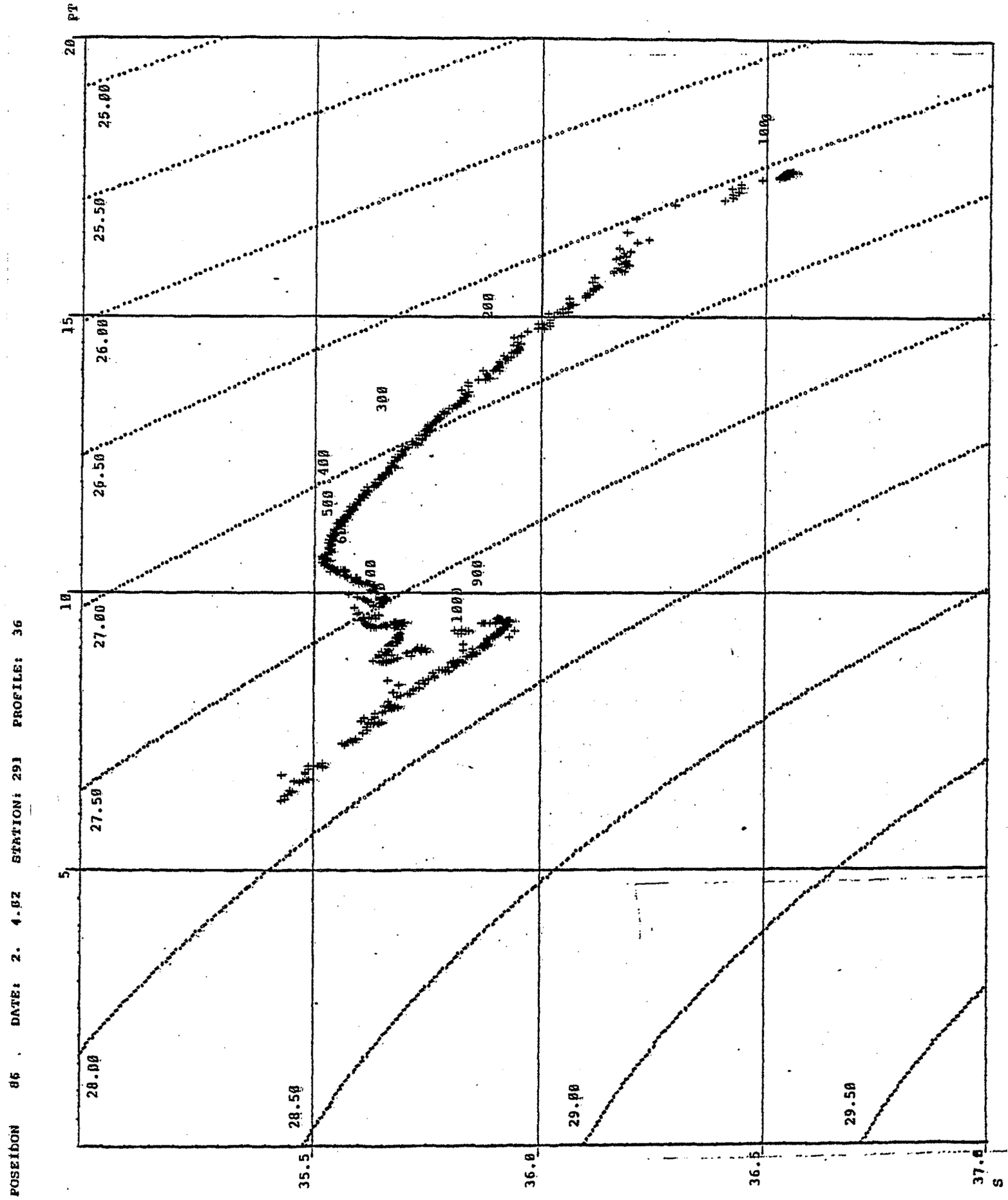
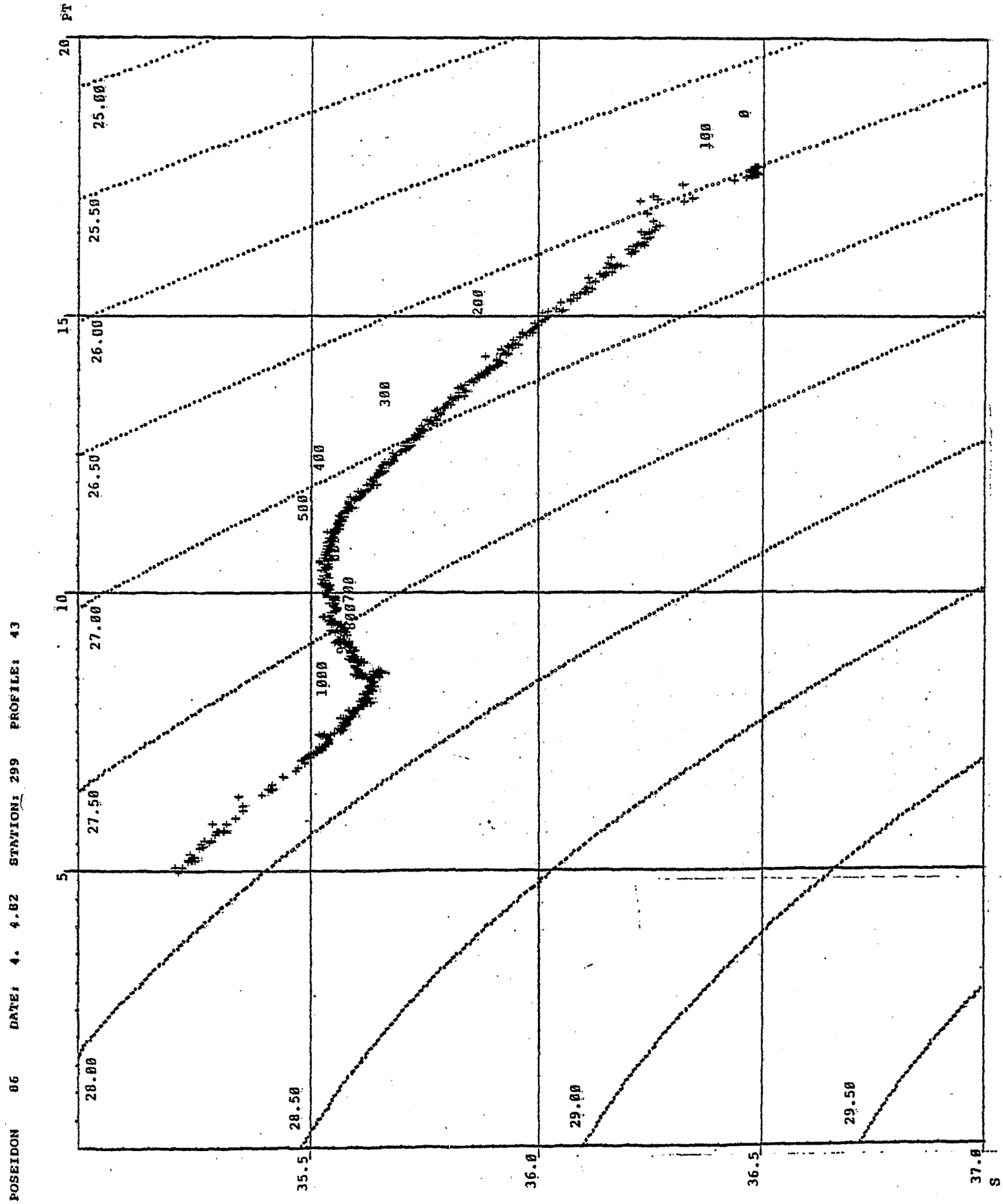
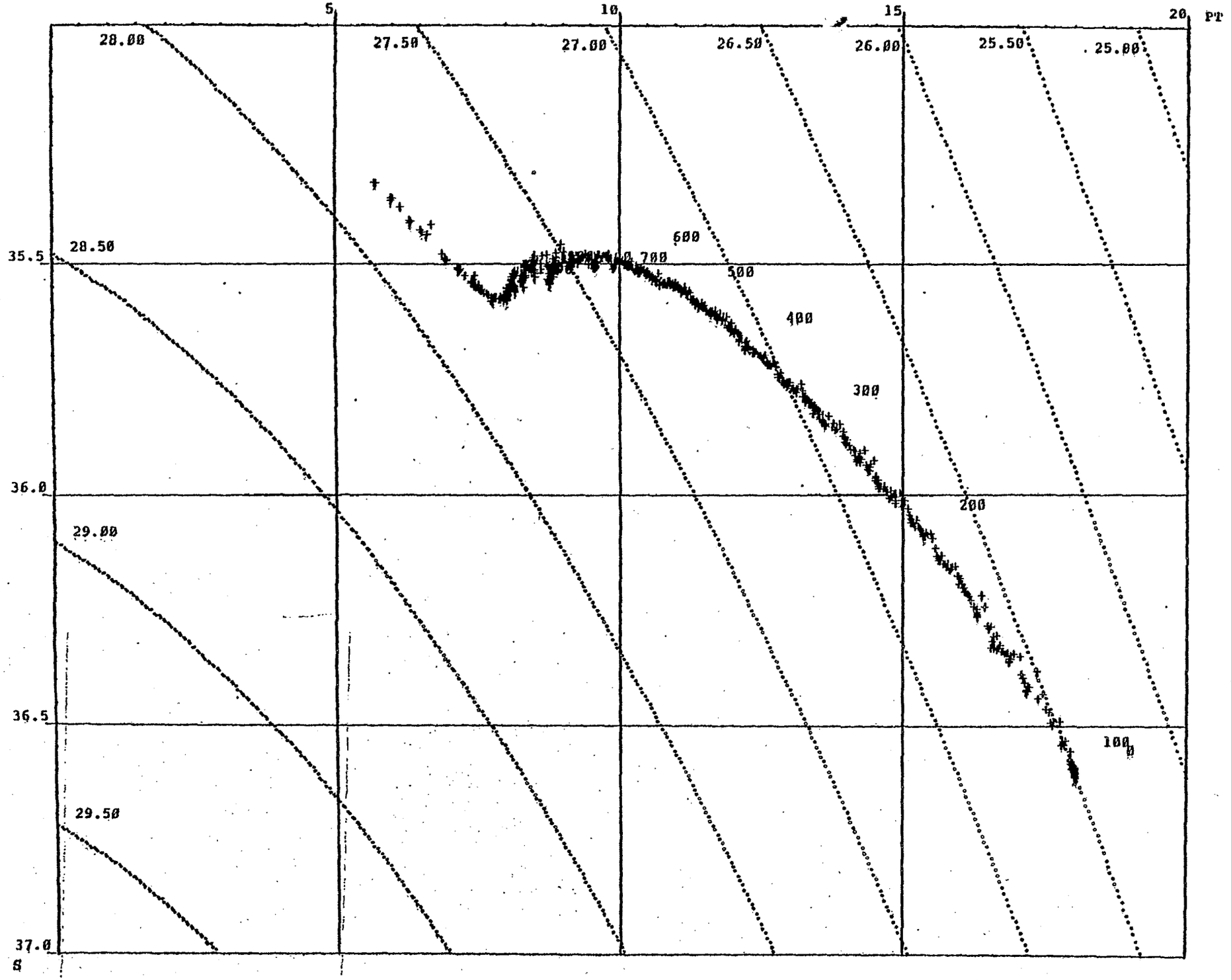
800
500
400
300
200
100

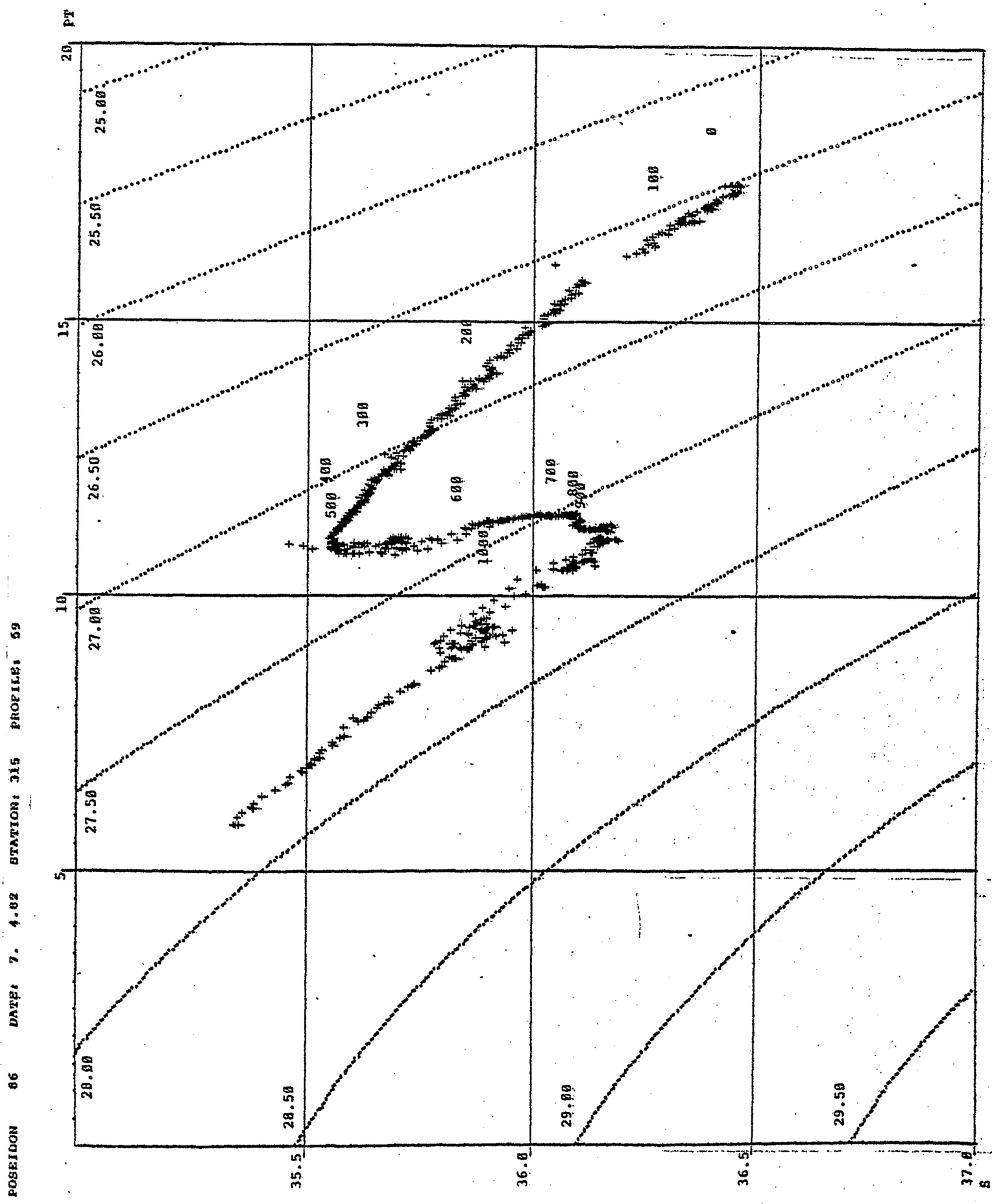

POSEIDON 86 DATE: 1. 4.82 STATION: 200 PROFILE: 33
PT
S
20
15
10
5
35.5
36.0
36.5
37.0
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
100
200
300
400
500
600
700
800
900
1000

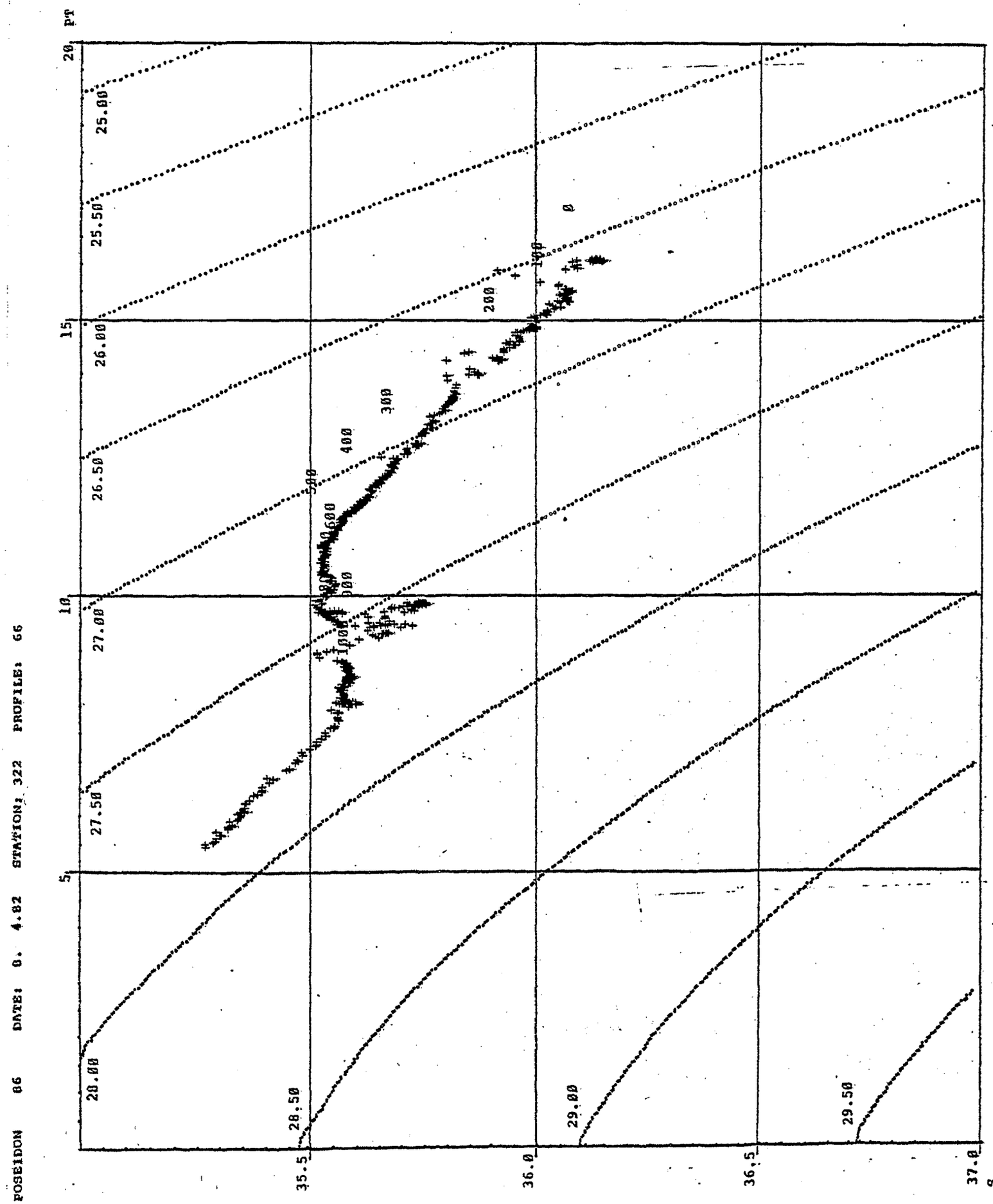

POSEIDON 86 . DATE: 2. 4.82 STATION: 291 PROFILE: 36
PT
S
20
15
10
5
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
200
300
400
500
600
700
800
900
1000
1100
35.5
36.0
36.5
37.0

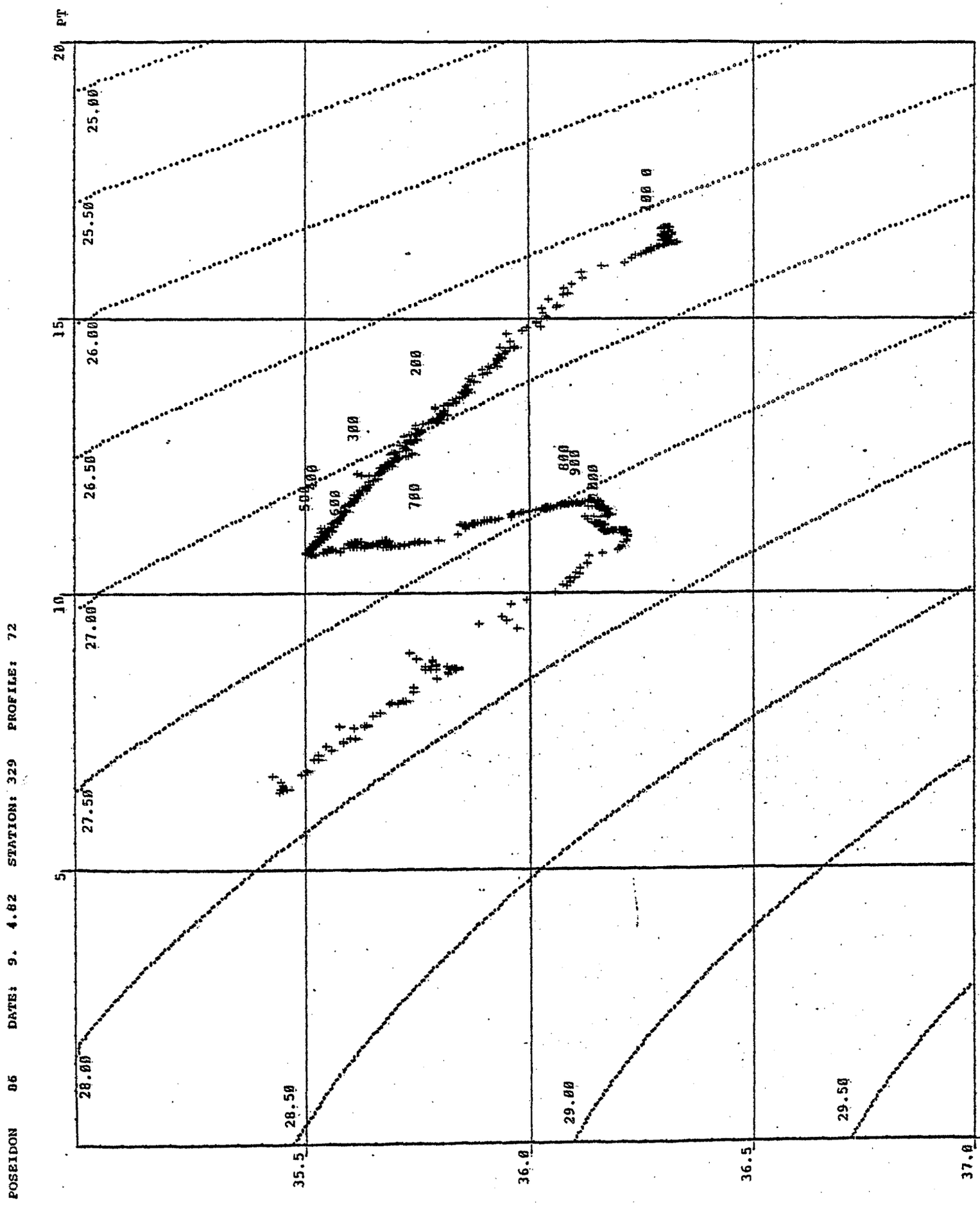

POSEIDON 86 DATE: 4. 4.82 STATION: 299 PROFILE: 43
pT
S
20
15
10
5
35.5
36.0
36.5
37.0
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
0
100
200
300
400
500
1000

POSEIDON 86 DATE: 6. 4.82 STATION: 311

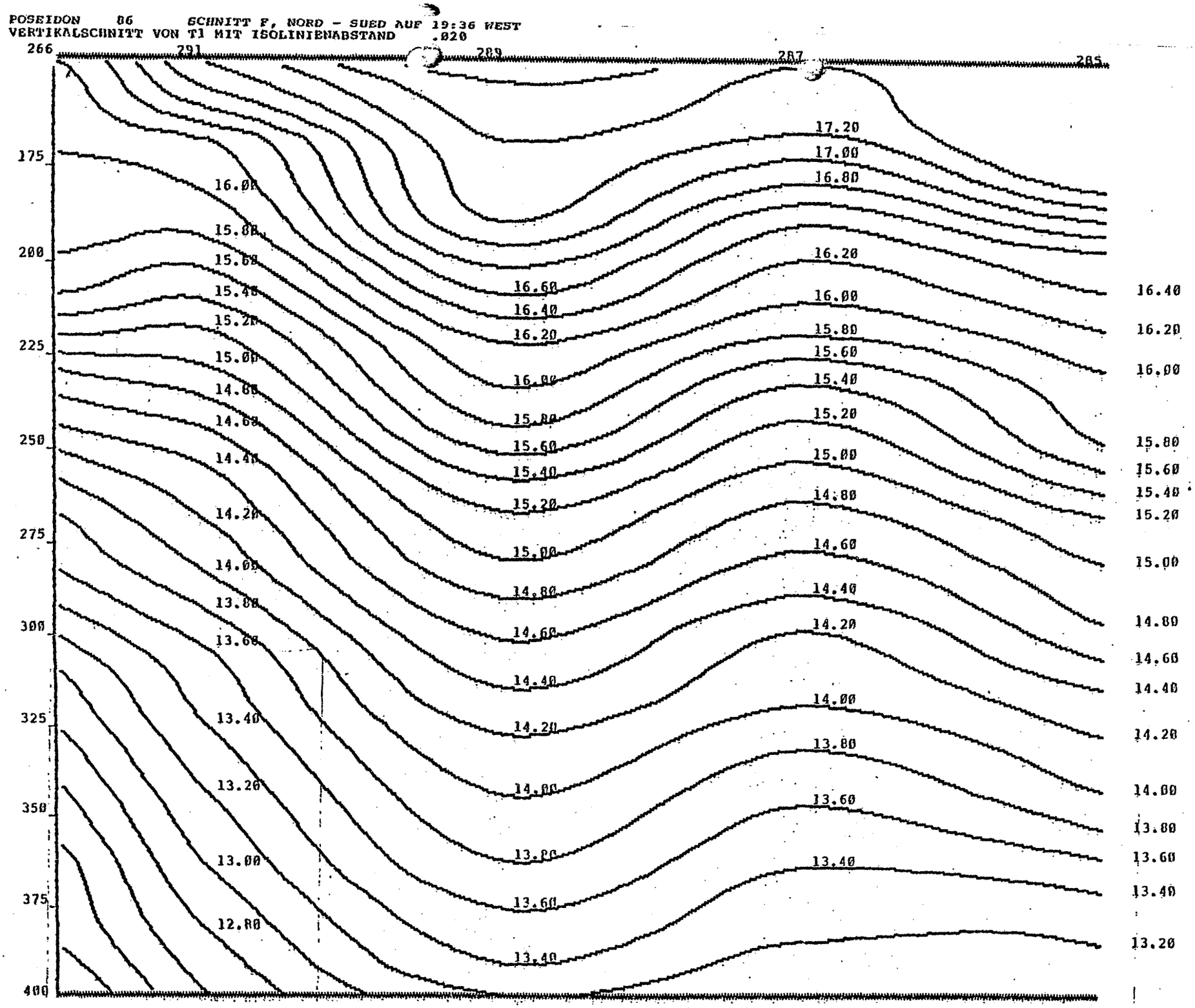


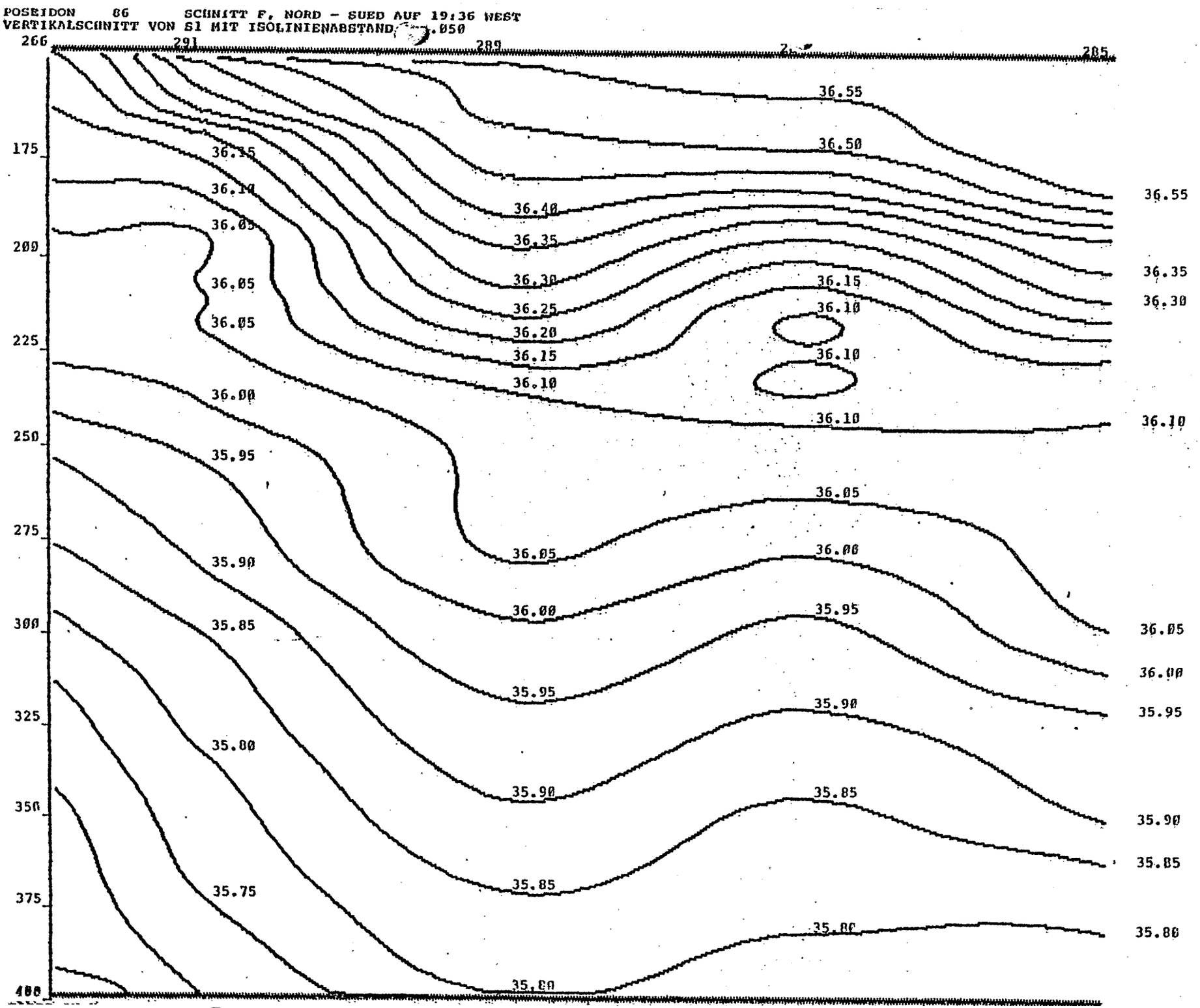

POSEIDON 86 DATE: 7. 4.82 STATION: 315 PROFILE: 69
PT
20
15
10
5
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
0
100
200
300
400
500
600
700
800
900
1000
35.5
36.0
36.5
37.0
S

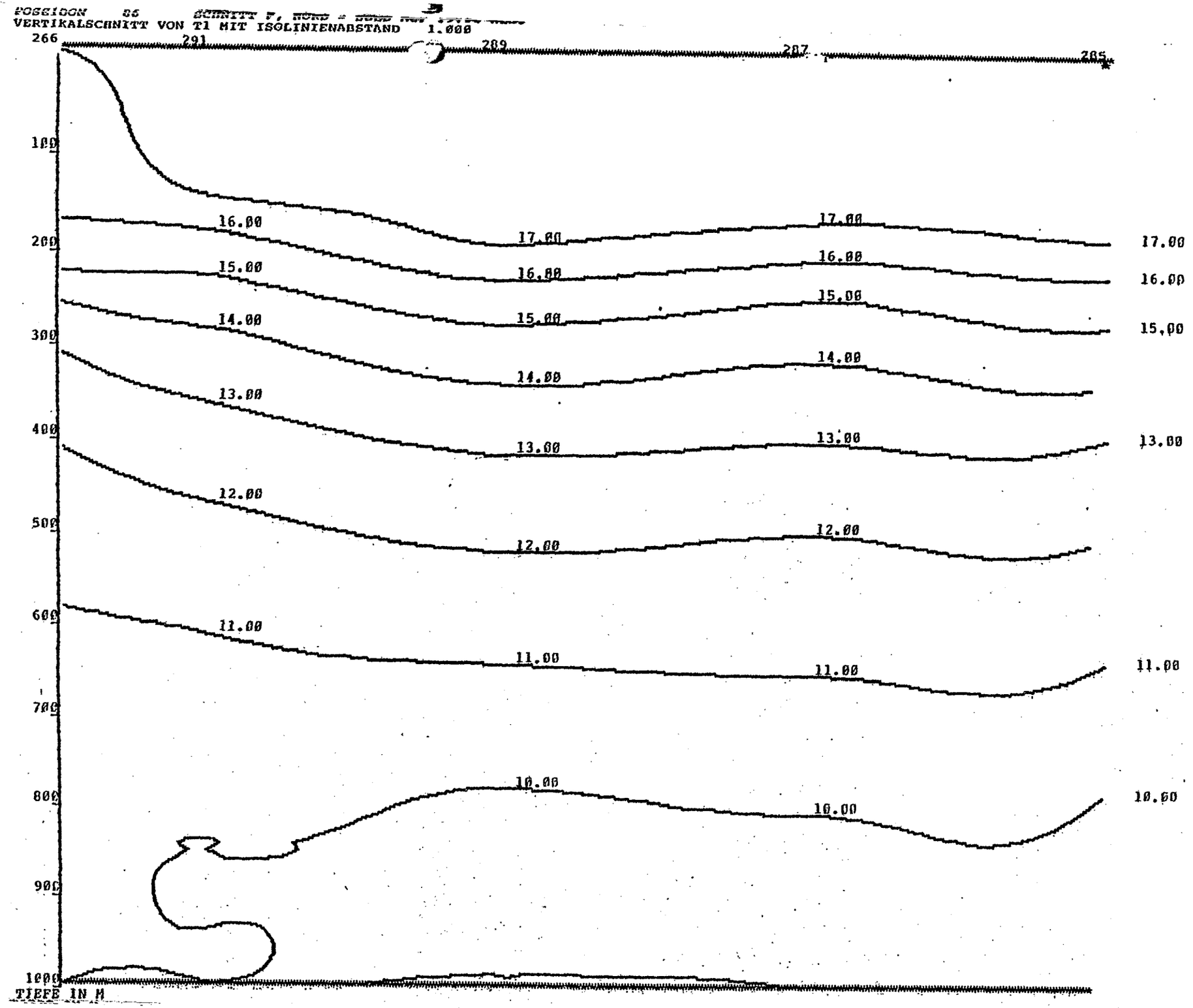

POSEIDON 66 DATE: 0. 4.82 STATION: 322 PROFILE: 66
PT
S
20
15
10
5
35.5
36.0
36,5
37.0
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
0
100
200
300
400
500
600
1000

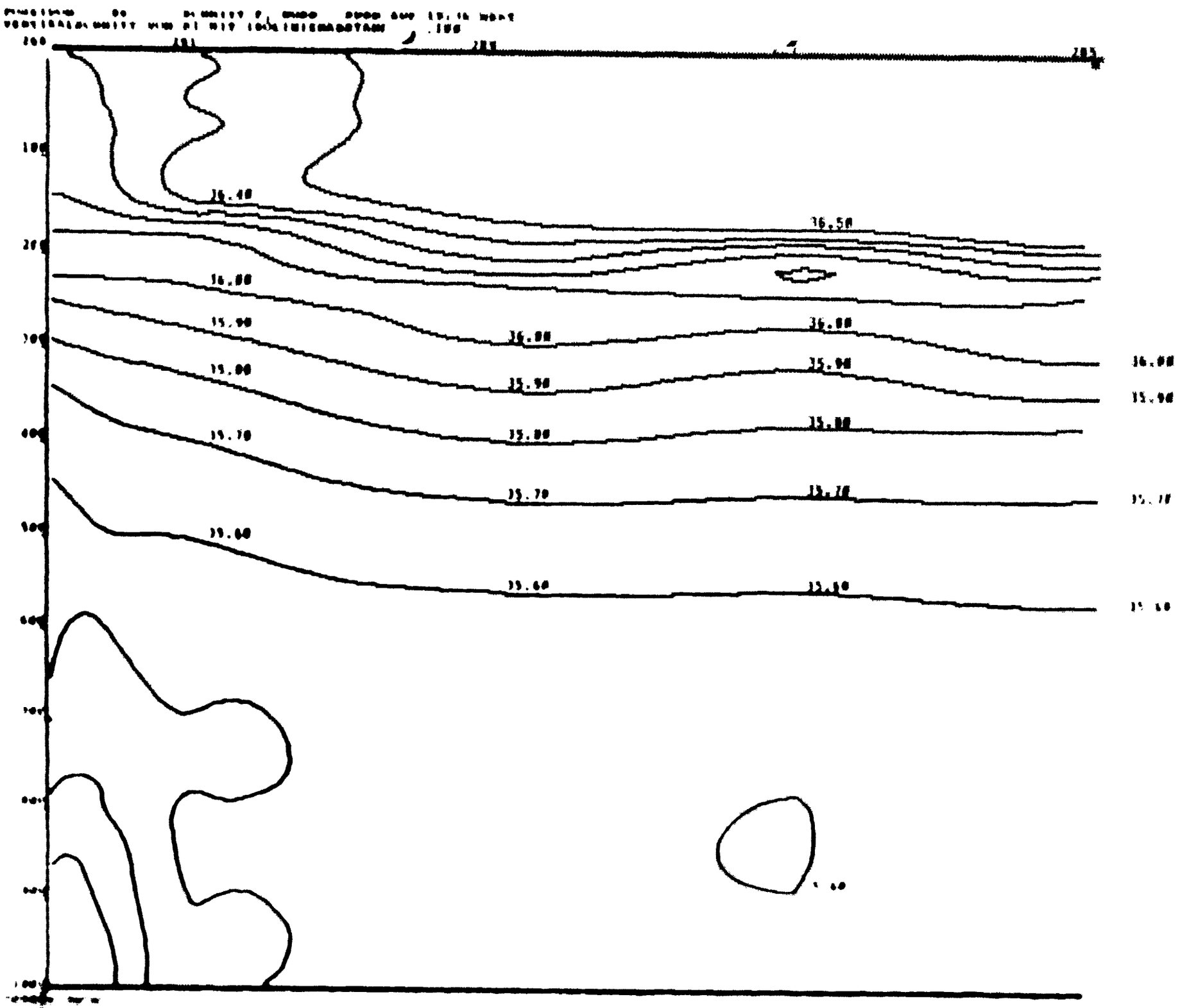

POSEIDON 06 DATE: 9. 4.82 STATION: 329 PROFILE: 72
PT
S
20
15
10
5
35.5
36.0
36.5
37.0
25.00
25.50
26.00
26.50
27.00
27.50
28.00
28.50
29.00
29.50
200 0
200
300
500
600
700
800
900
1000

VERTICAL SECTIONS


POSEIDON 86 SCHNITT F, NORD - SUED AUF 19:36 WEST
VERTIKALSCHNITT VON T1 MIT ISOLINIENABSTAND .020
266
291
289
287
285
175
200
225
250
275
300
325
350
375
400
17.20
17.00
16.80
16.60
16.40
16.20
16.00
15.80
15.60
15.40
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20
13.00
12.80
16.40
16.20
16.00
15.80
15.60
15.40
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20

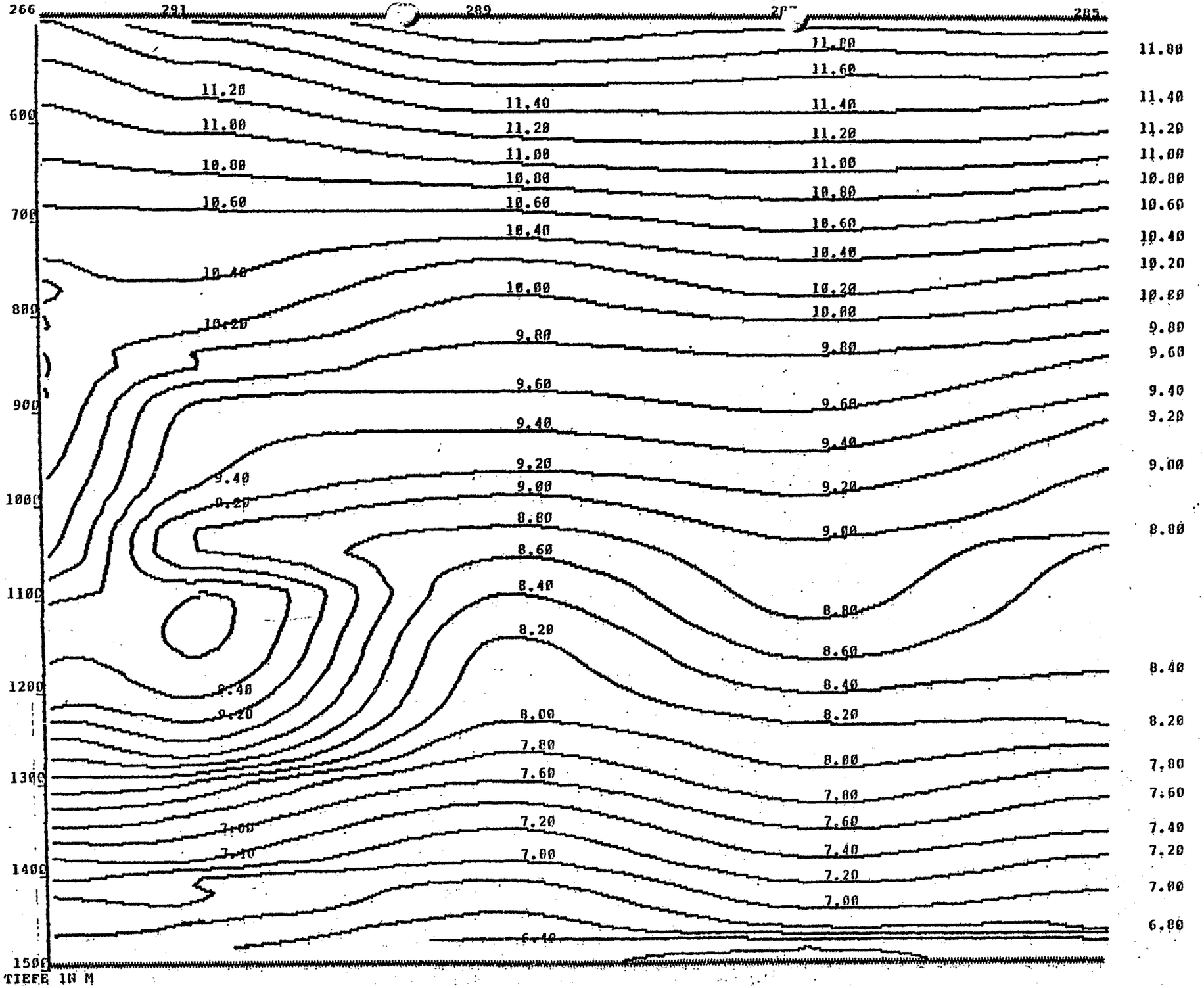

POSEIDON 86 SCHNITT F, NORD - SUED AUF 19:36 WEST
VERTIKALSCHNITT VON S1 MIT ISOLINIENABSTAND .050
266
291
289
285
175
200
225
250
275
300
325
350
375
400
36.55
36.50
36.45
36.40
36.35
36.30
36.25
36.20
36.15
36.10
36.05
36.00
35.95
35.90
35.85
35.80
35.75

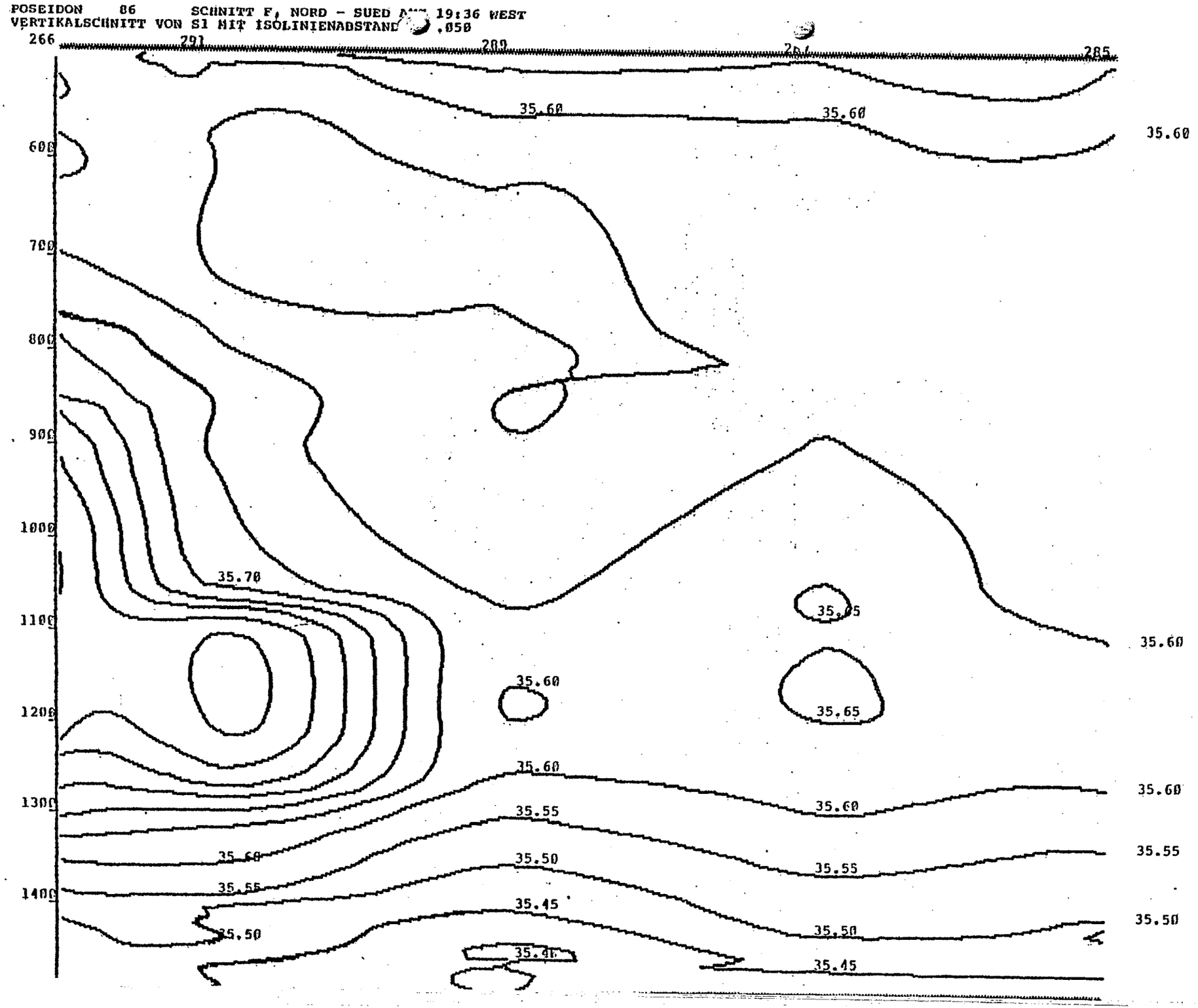

POSEIDON 86 SCHNITT F, NORD - SUED
VERTIKALSCHNITT VON T1 MIT ISOLINIENABSTAND 1.000
266
291
289
287
285
100
200
300
400
500
600
700
800
900
1000
16.00
17.00
17.00
17.00
15.00
16.00
16.00
16.00
14.00
15.00
15.00
15.00
13.00
14.00
13.00
12.00
13.00
13.00
12.00
12.00
11.00
11.00
11.00
11.00
10.00
10.00
10.00
TIEFE IN M

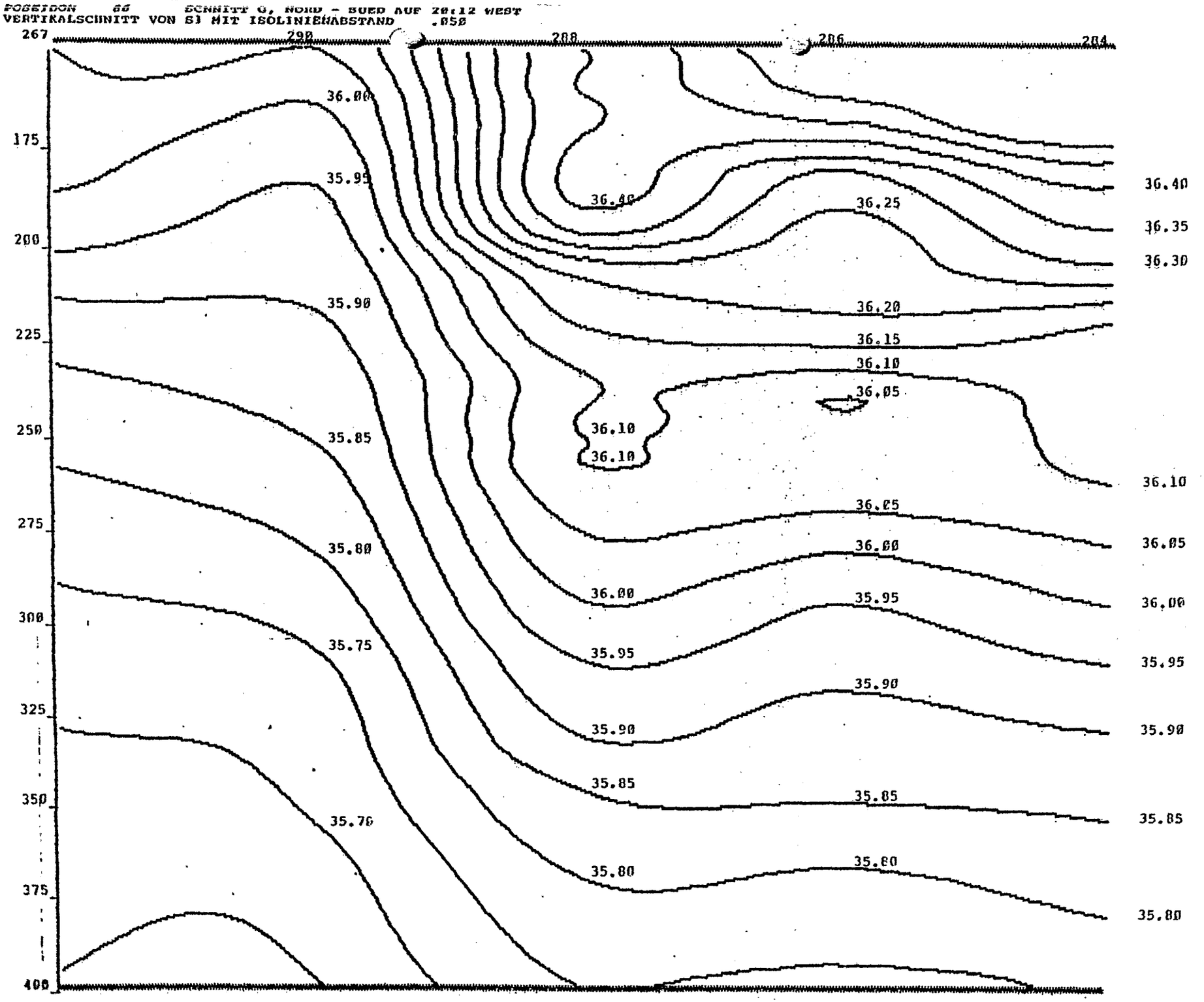

16.40
16.50
16.80
15.90
15.80
15.70
15.60

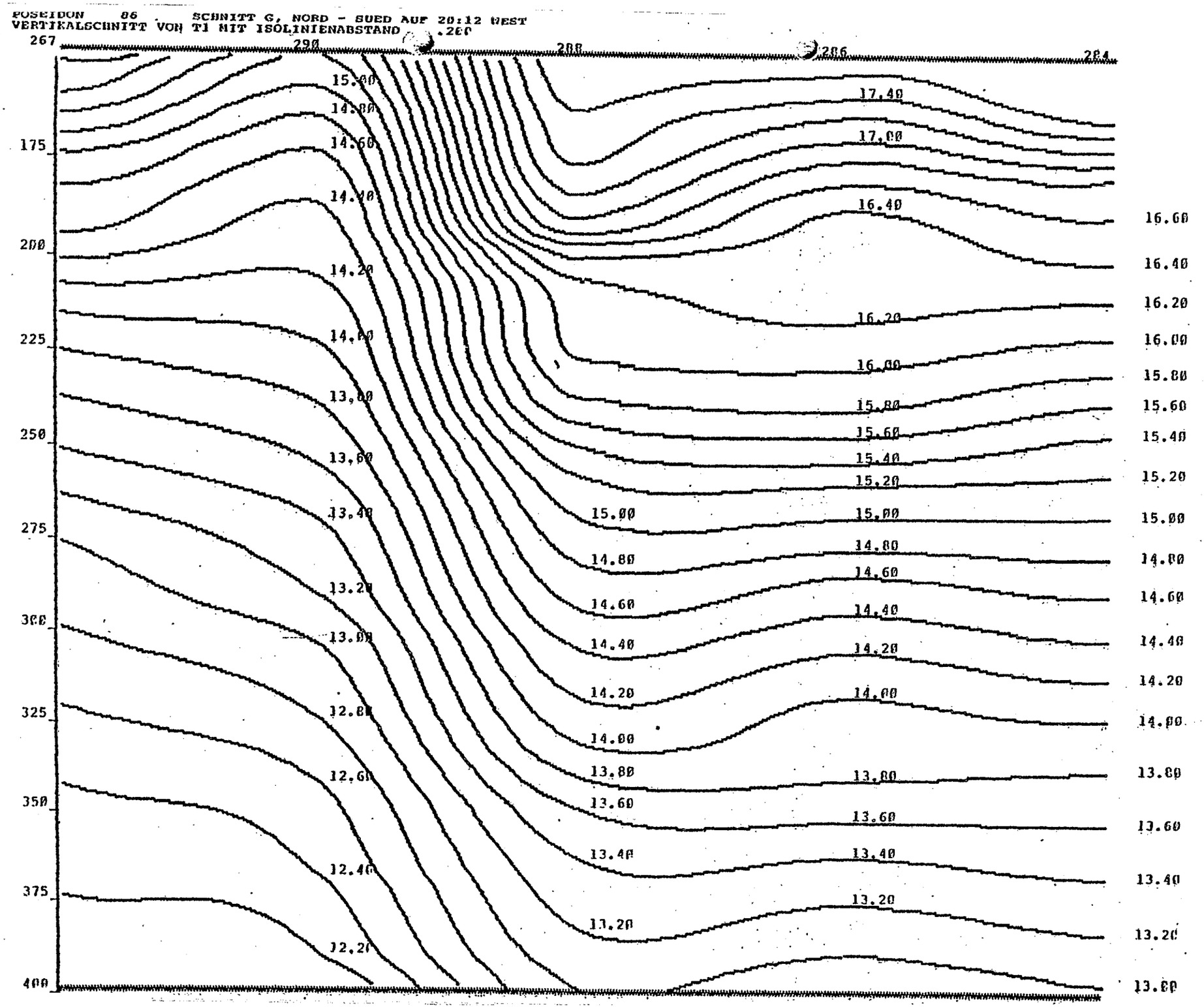
POSEIDON 86 SCHNITT F, NORD - SÜD AUF 19°30 WEST

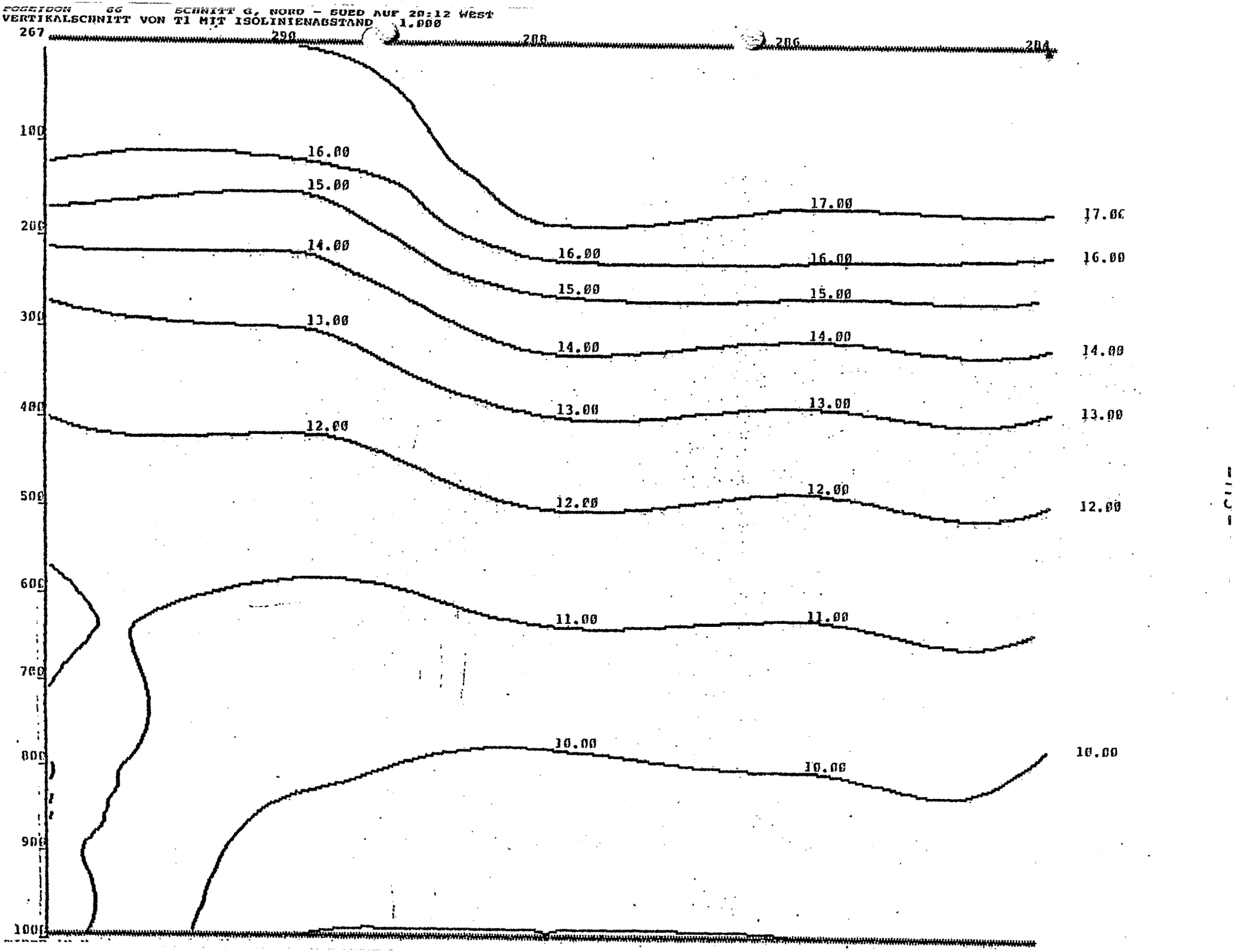
VERTIKALSCHNITT VON T1 MIT ISOLINIENABSTAND .020




POSEIDON 86 SCHNITT F, NORD - SUED AM 19:36 WEST
VERTIKALSCHNITT VON S1 MIT ISOLINIENABSTAND ,050
266
291
200
285
600
700
800
900
1000
1100
1200
1300
1400
35.60
35.70
35.65
35.55
35.50
35.45


POSEIDON 68 SCHNITT G, NORD - SUED AUF 20:12 WEST
VERTIKALSCHNITT VON 61 MIT ISOLINIENABSTAND .050
267
290
288
206
204
175
200
225
250
275
300
325
350
375
400
36.00
35.95
35.90
35.85
35.80
35.75
35.70
36.40
36.25
36.20
36.15
36.10
36.05
36.10
36.10
36.05
36.00
35.95
35.90
35.85
35.80
36.40
36.35
36.30
36.10
36.05
36.00
35.95
35.90
35.85
35.80


POSEIDON 86 SCHNITT G, NORD - SUED AUF 20:12 WEST
VERTIKALSCHNITT VON T1 MIT ISOLINIENABSTAND .200
267
290
288
286
284
175
200
225
250
275
300
325
350
375
400
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20
13.00
12.80
12.60
12.40
12.20
17.40
17.00
16.40
16.20
16.00
15.80
15.60
15.40
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20
16.60
16.40
16.20
16.00
15.80
15.60
15.40
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20
13.00


VERTIKALSCHNITT VON T1 MIT ISOLINIENABSTAND 1.000
267
290
208
206
204
100
200
300
400
500
600
700
800
900
1000
16.00
15.00
14.00
13.00
12.00
11.00
10.00
17.00
16.00
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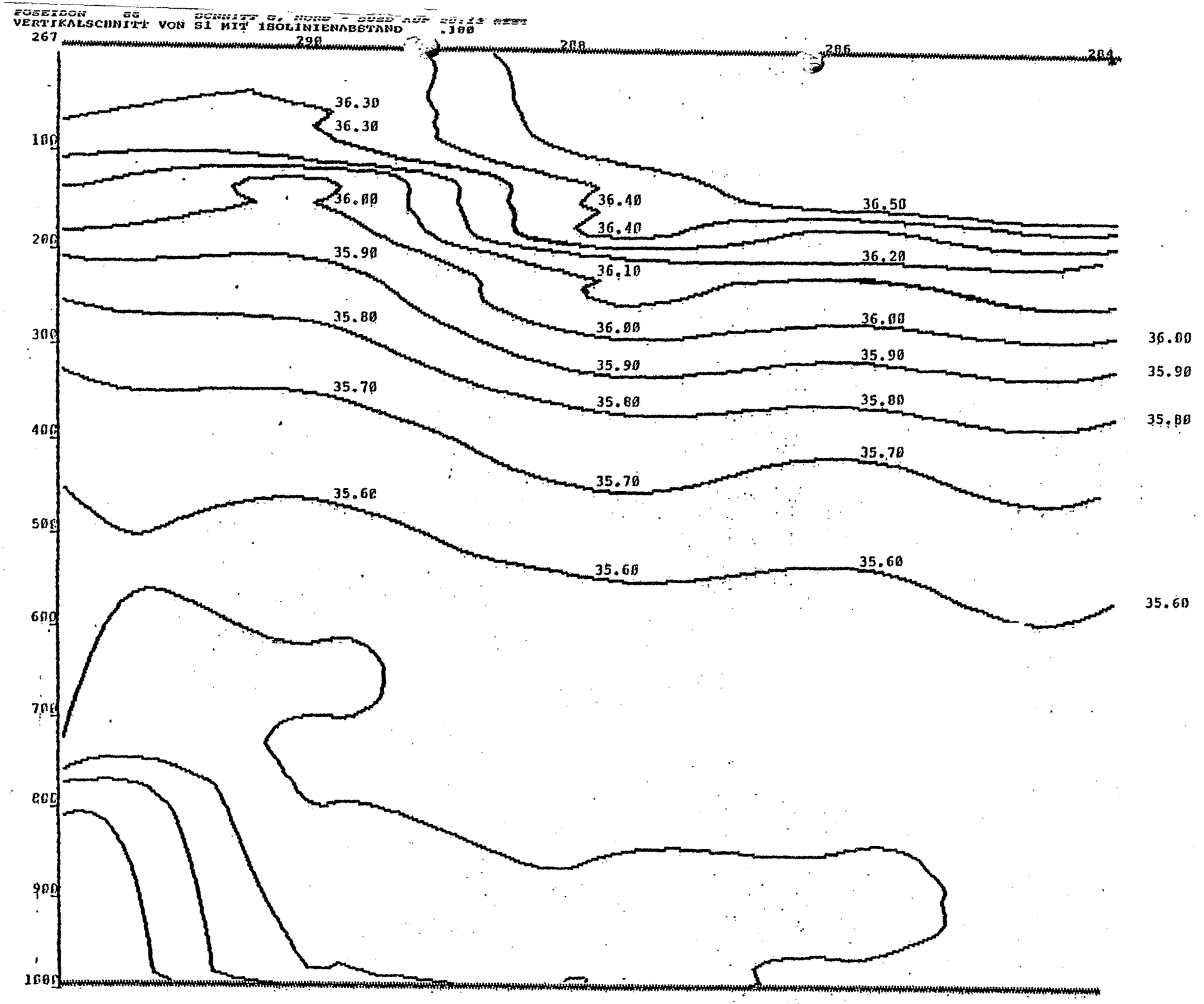
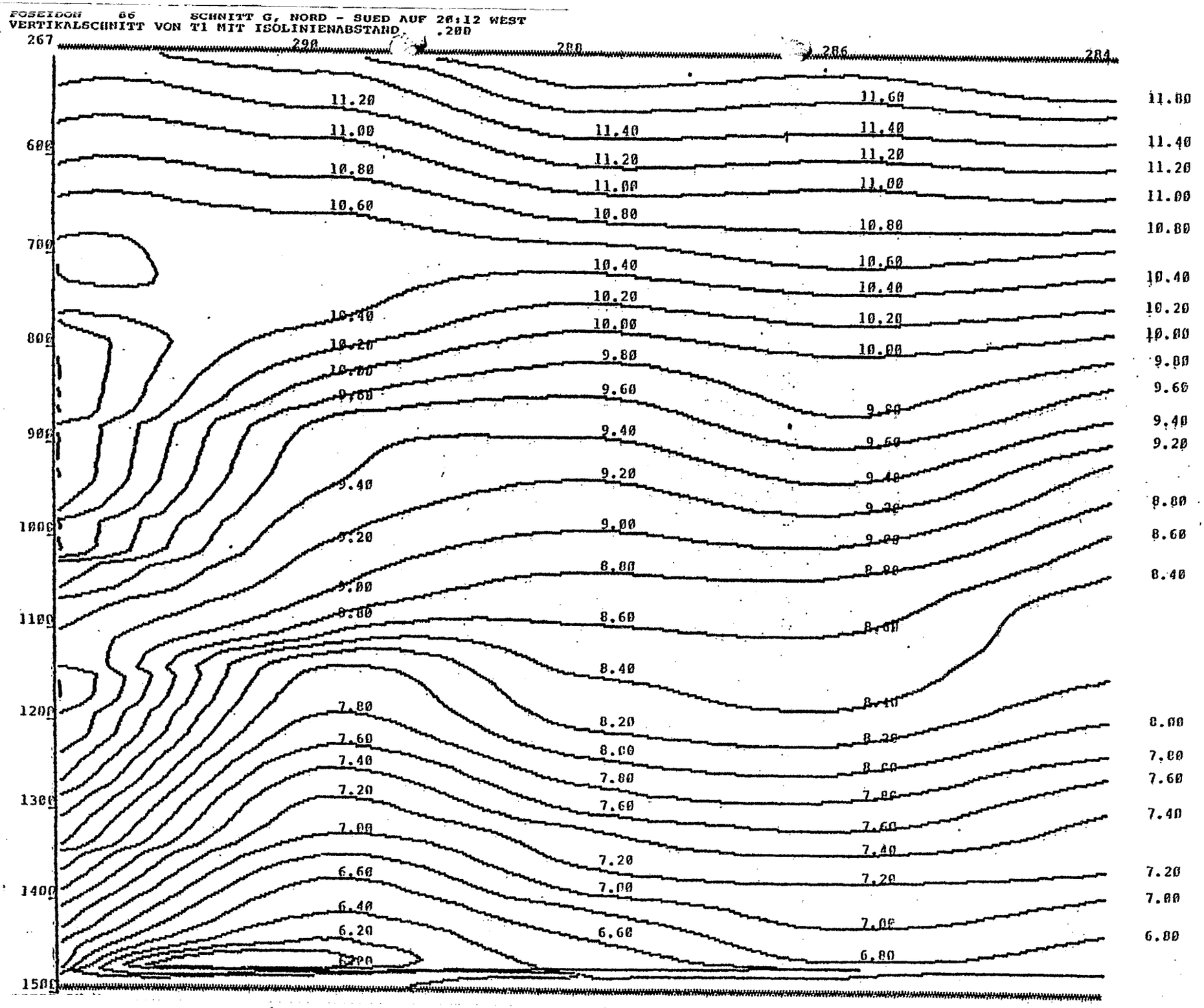
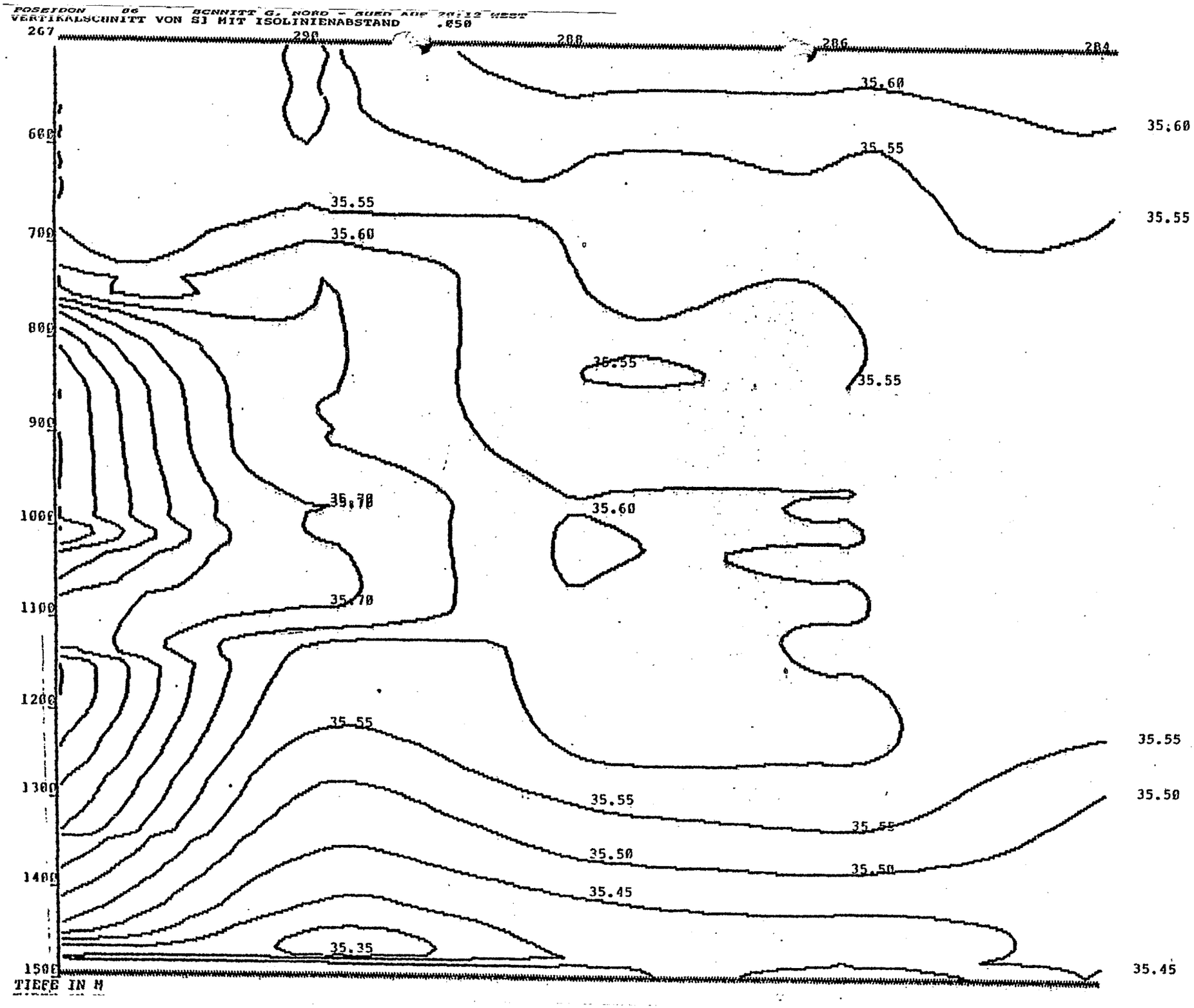
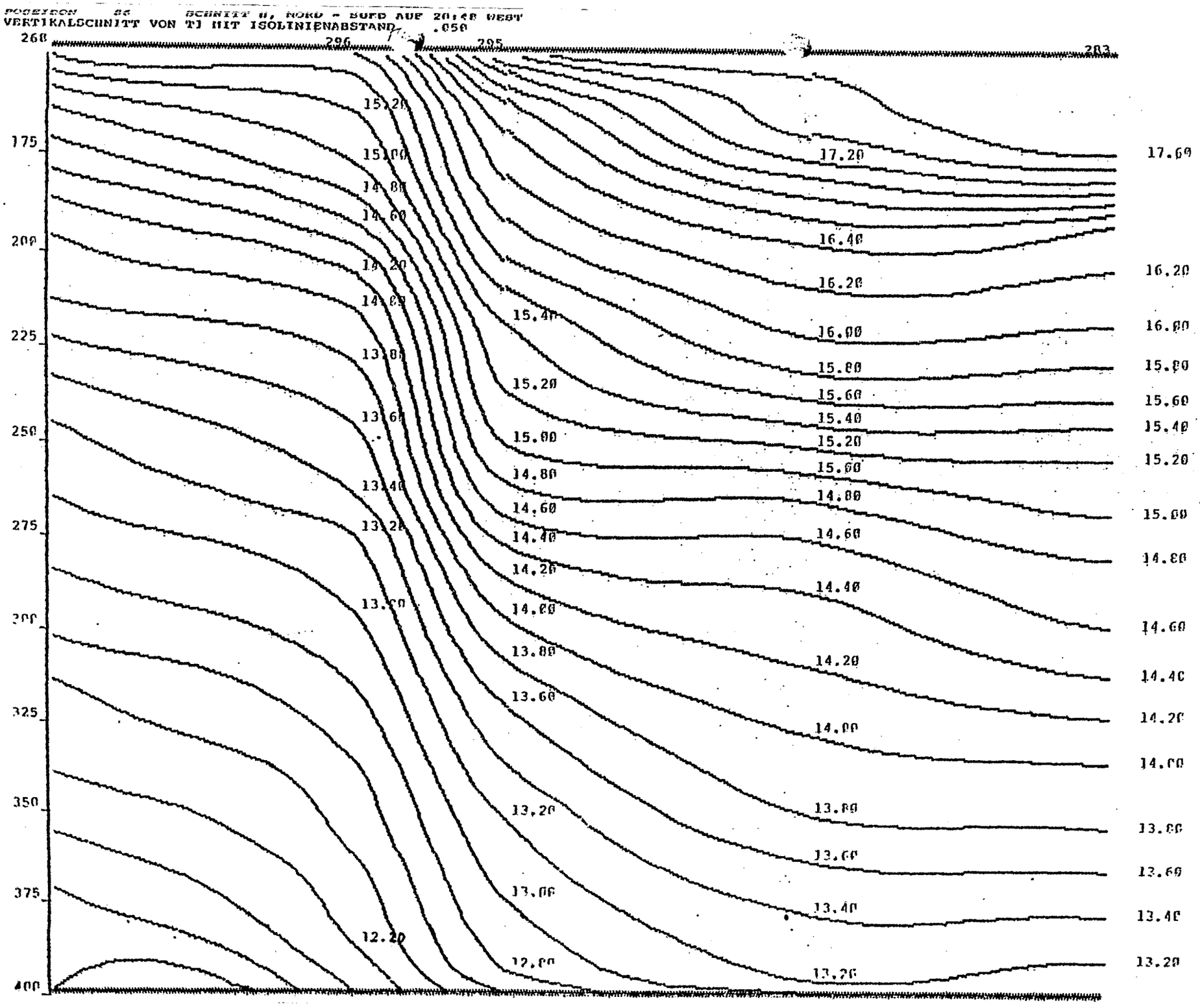
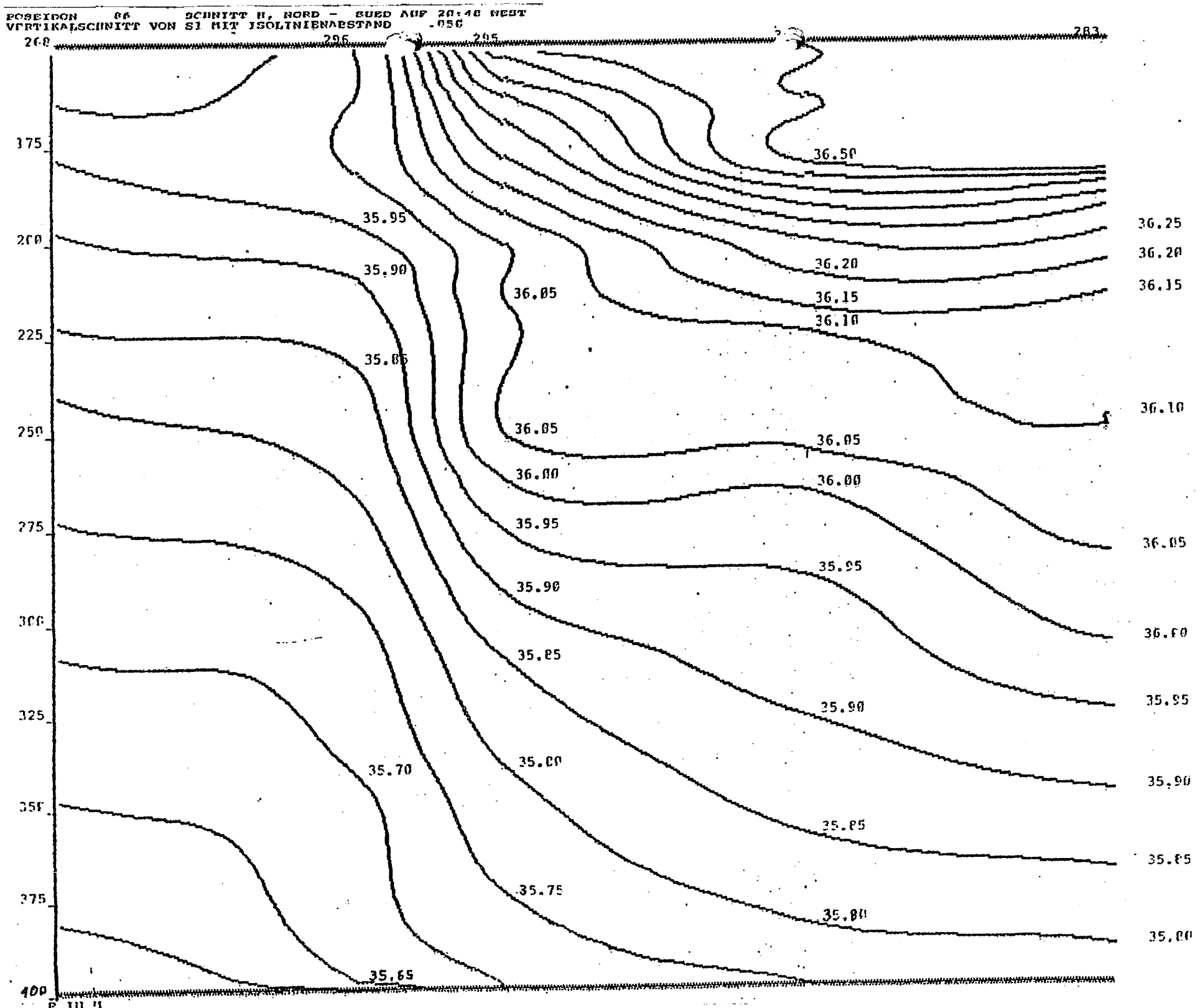
13.00
12.00
10.00

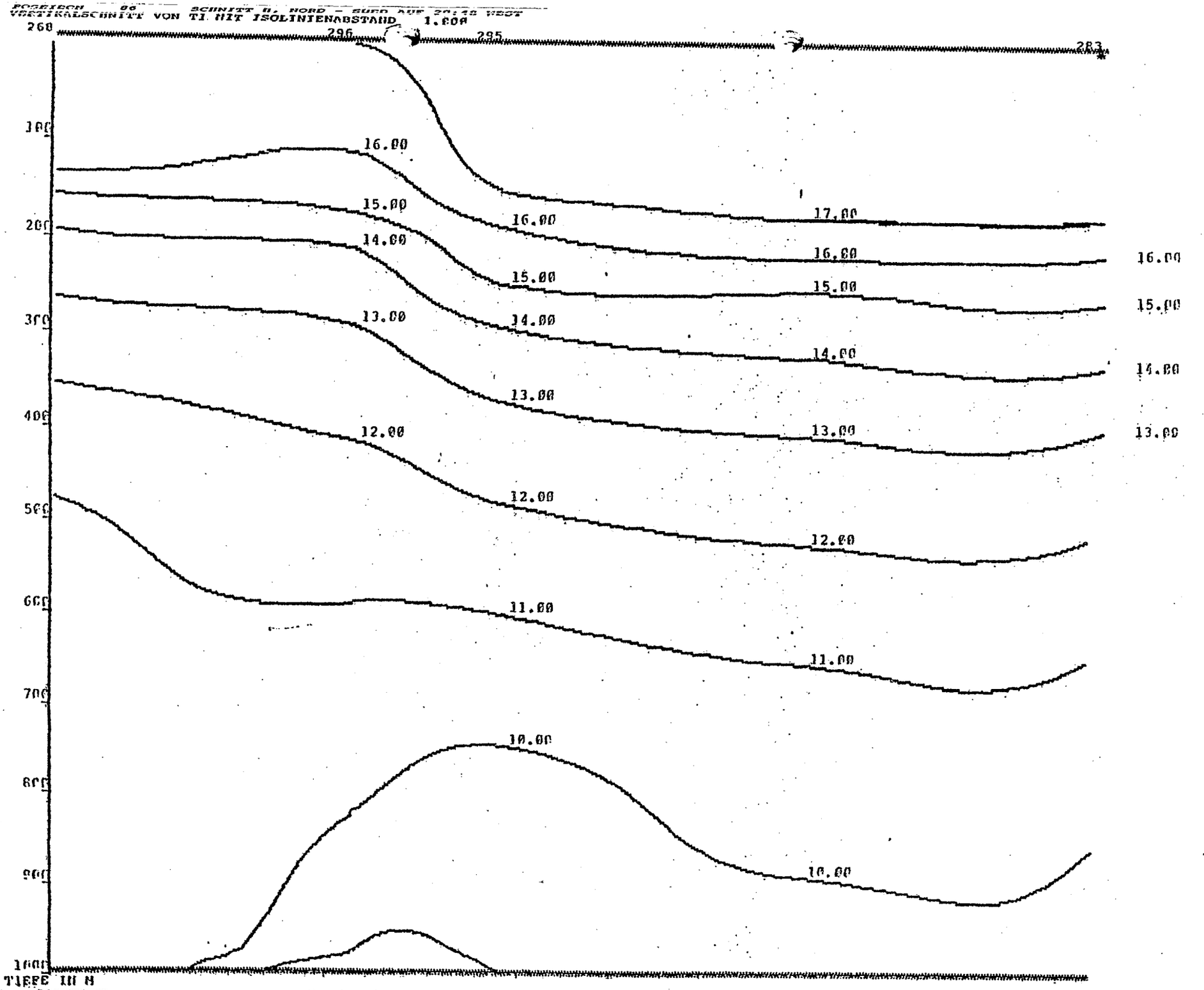

POSEIDON 66 SCHNITT G, NORD - SUED AUF 20:13 WEST
VERTIKALSCHNITT VON S1 MIT ISOLINIENABSTAND .100
267
290
288
286
284
100
200
300
400
500
600
700
800
900
1000
36.30
36.30
36.00
36.40
36.40
36.50
35.90
36.10
36.20
35.80
36.00
36.00
36.00
35.90
35.90
35.70
35.80
35.80
35.80
35.70
35.70
35.60
35.60
35.60
35.60

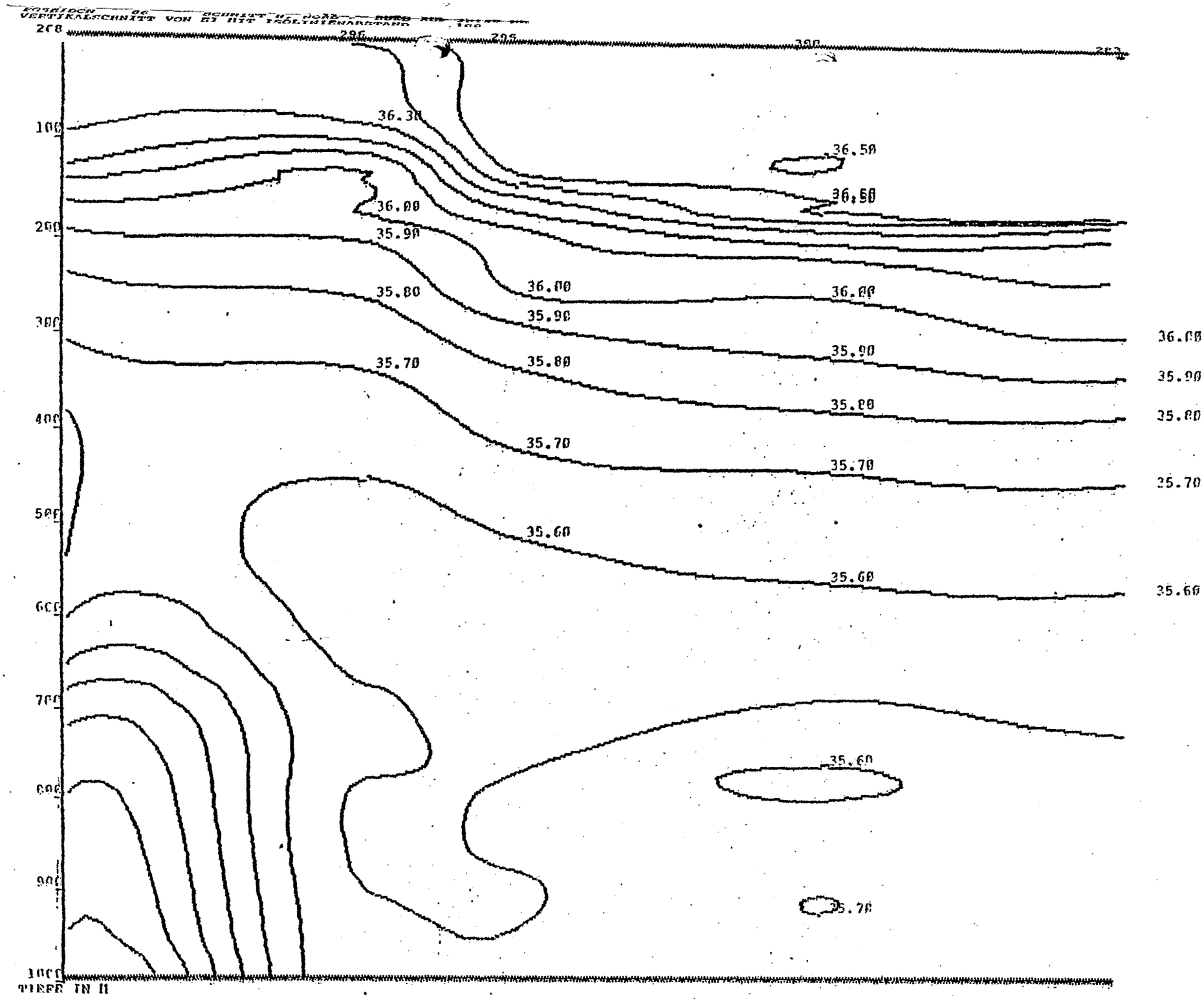

POSEIDON 66 SCHNITT G, NORD - SUED AUF 26:12 WEST
VERTIKALSCHNITT VON T1 MIT ISOLINIENABSTAND .200
267
290
288
286
284
600
700
800
900
1000
1100
1200
1300
1400
1500
11.20
11.00
10.80
10.60
10.40
10.20
10.00
9.80
9.60
9.40
9.20
9.00
8.80
8.60
8.40
8.20
8.00
7.80
7.60
7.40
7.20
7.00
6.80
6.60
6.40
6.20
6.00
11.60
11.40
11.20
11.00
10.80
10.60
10.40
10.20
10.00
9.80
9.60
9.40
9.20
9.00
8.80
8.60
8.40
8.20
8.00
7.80
7.60
7.40
7.20
7.00
6.80
11.60
11.40
11.20
11.00
10.80
10.60
10.40
10.20
10.00
9.80
9.60
9.40
9.20
8.80
8.60
8.40
8.00
7.80
7.60
7.40
7.20
7.00
6.80

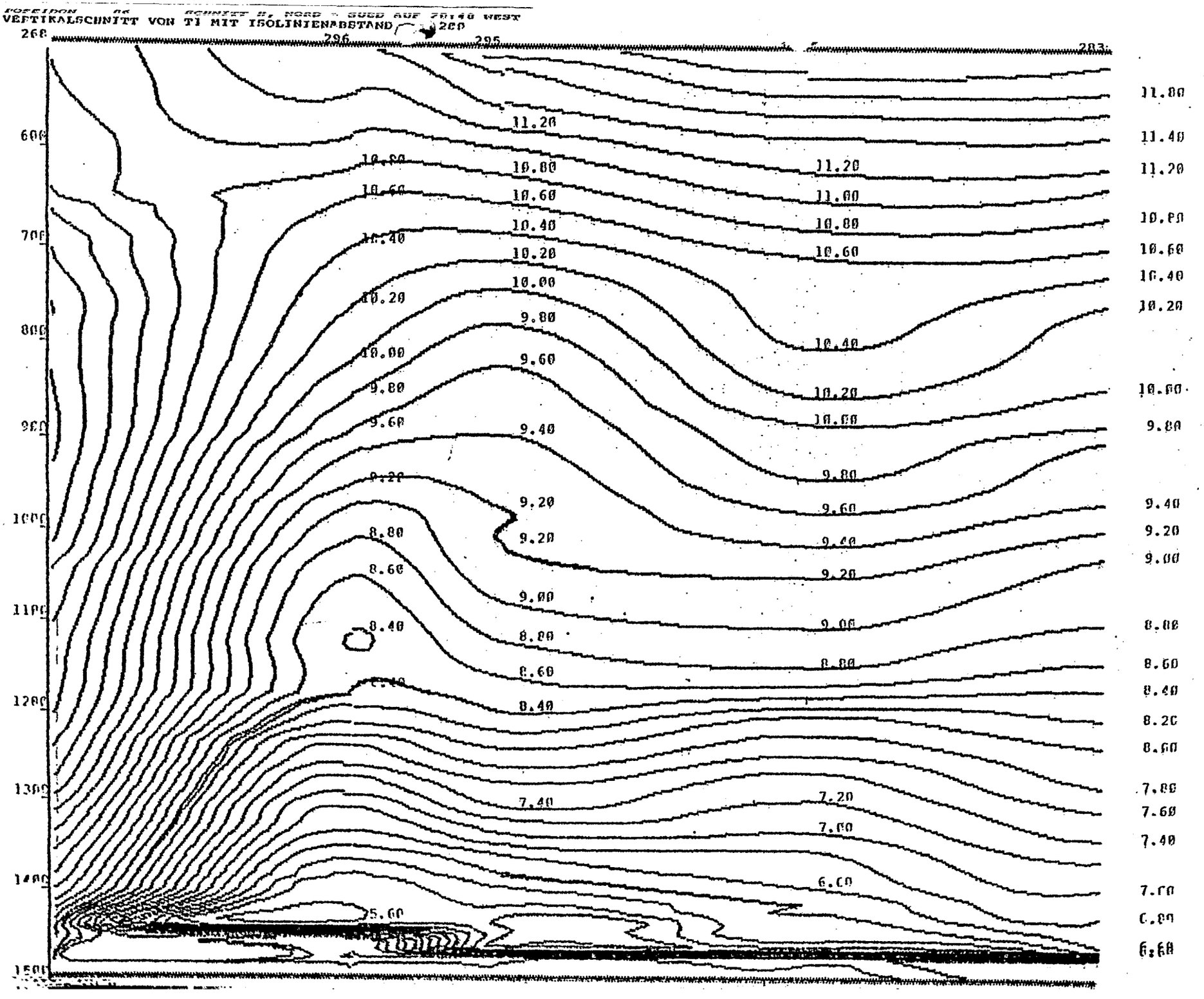

POSEIDON 86 SCHNITT G, NORD - AUER ADF 20:12 WEST
VERTIKALSCHNITT VON SJ MIT ISOLINIENABSTAND .050
267
290
288
286
284
600
700
800
900
1000
1100
1200
1300
1400
1500
35.60
35.55
35.70
35.50
35.45
35.35
TIEFE IN M

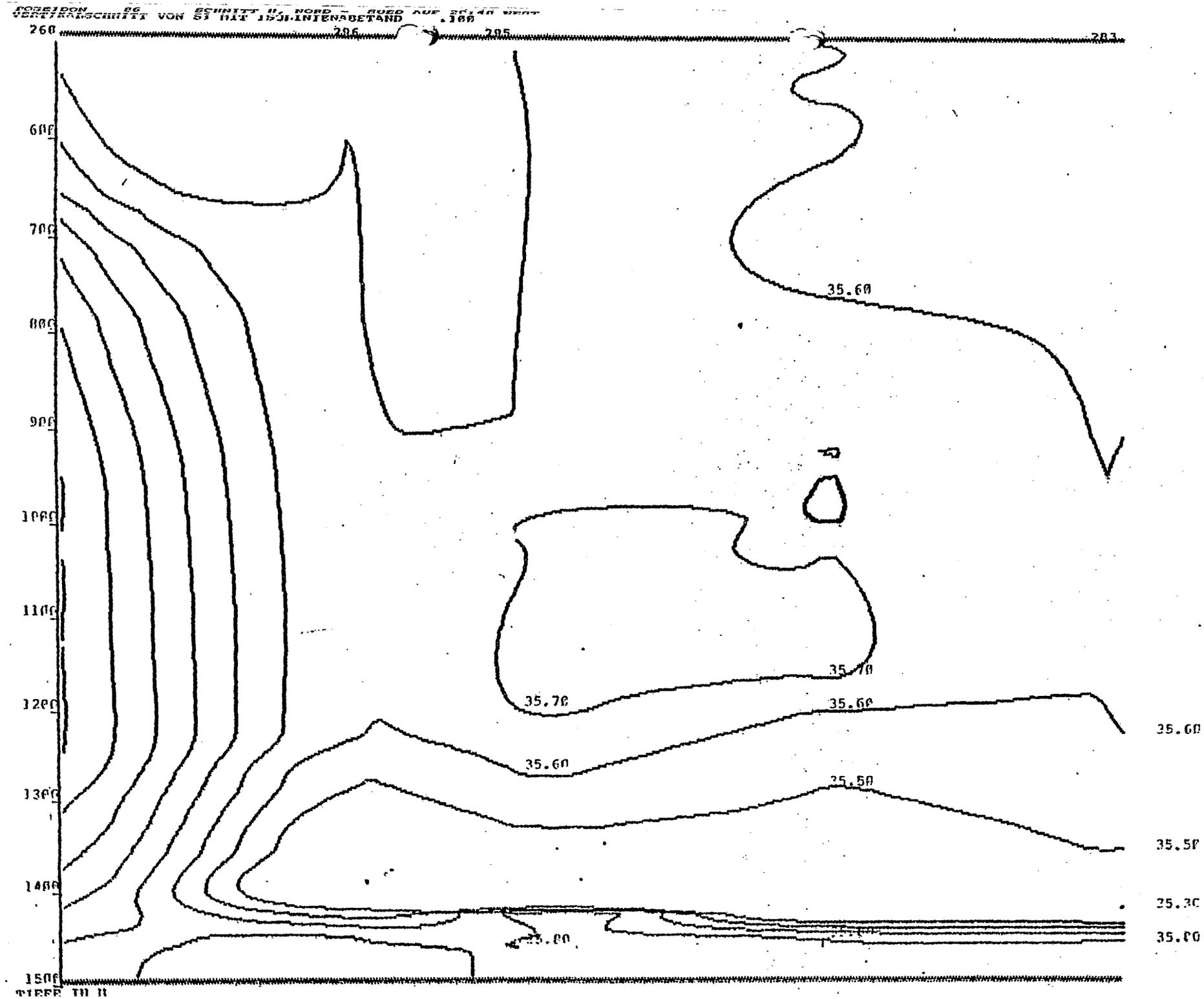

POSITION 26 SCHNITT N, NORD - SÜD AUF 20:48 WEST
VERTIKALSCHNITT VON TJ MIT ISOLINIENABSTAND .050
260
296
295
283
175
200
225
250
275
300
325
350
375
400
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20
13.00
12.80
12.20
17.20
16.40
16.20
16.00
15.80
15.60
15.40
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20
17.60
16.20
16.00
15.80
15.60
15.40
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20

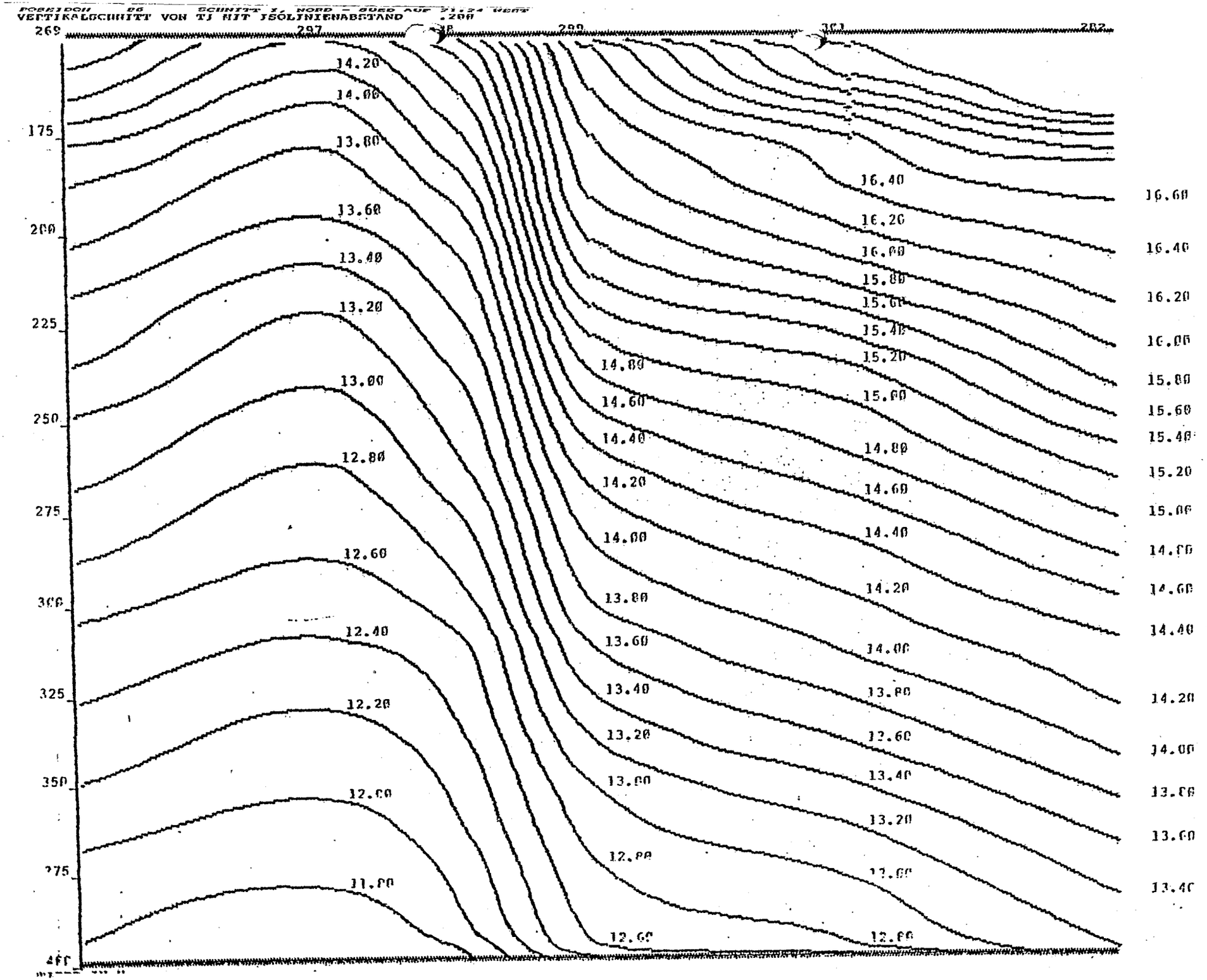

POSEIDON 86 SCHNITT H, NORD - SUED AUF 20:48 WEST
VERTIKALSCHNITT VON S1 MIT ISOLINIENABSTAND .050
296
295
283
175
200
225
250
275
300
325
350
375
400
36.50
36.25
36.20
36.15
36.10
36.05
36.00
35.95
35.90
35.85
35.80
35.75
35.70
35.65

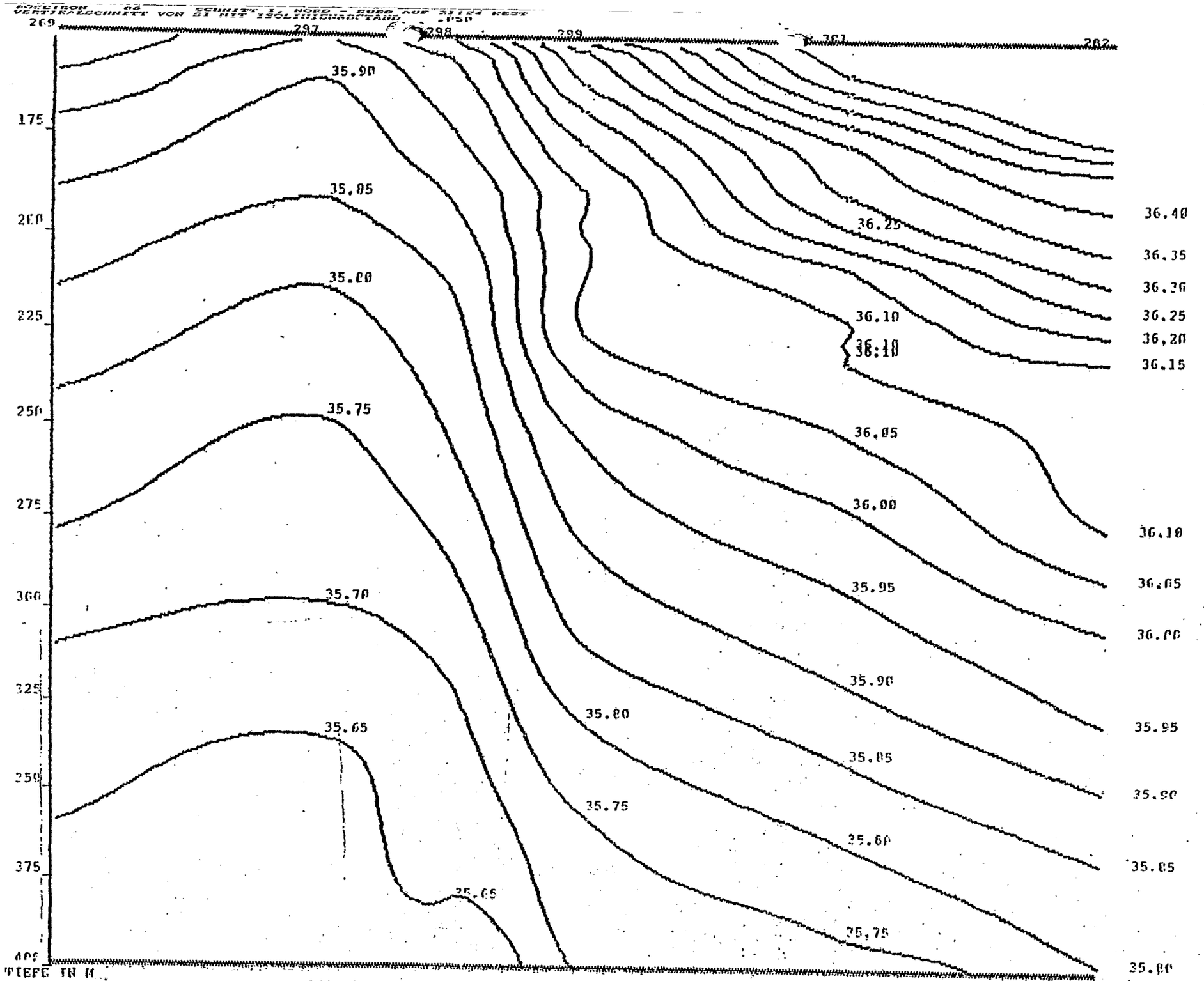

VERTIKALSCHNITT VON TI HIT ISOLINIENABSTAND 1.000
260
296
295
283
100
16.00
15.00
16.00
16.00
16.00
200
14.00
15.00
15.00
15.00
300
13.00
14.00
14.00
14.00
400
13.00
13.00
12.00
13.00
500
12.00
12.00
600
11.00
11.00
700
10.00
800
10.00
900
1000
TIEFE IN M

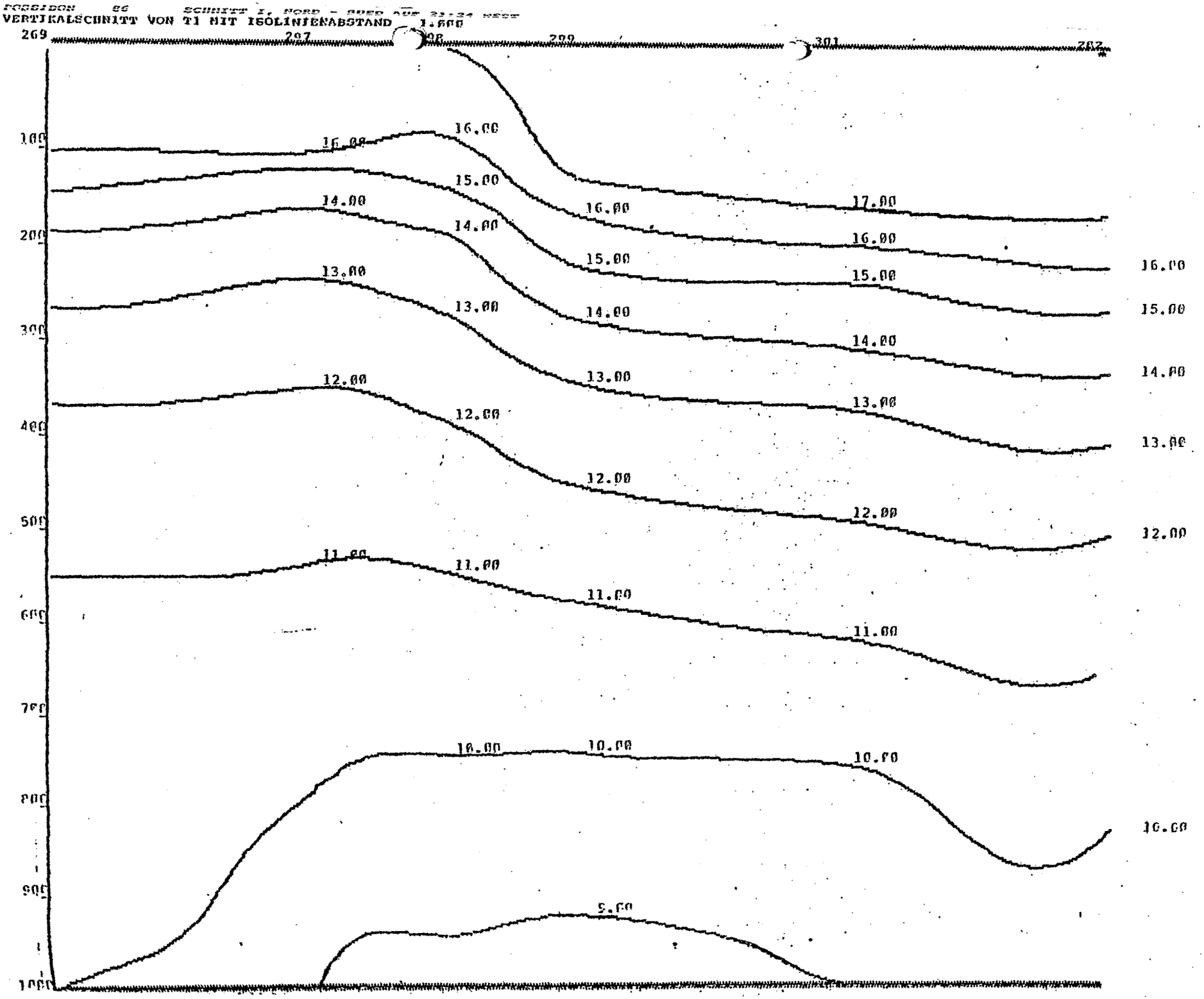

POSEIDON 86 SCHNITT 02 NORD RUN 205 T
VERTIKALSCHNITT VON 63 MIT ISOLINIENABSTAND 100
200
100
36.30
36.50
36.50
36.00
200
35.90
35.80
36.00
36.00
35.90
300
35.90
36.00
35.70
35.80
35.90
35.90
35.80
400
35.70
35.70
35.70
35.70
35.60
500
35.60
35.60
35.60
600
700
35.60
800
35.70
900
1000
TIEFE IN M


POSEIDON 86 SCHNITT 01, NORD - SUED AUF 20.40 WEST
VERTIKALSCHNITT VON TI MIT ISOLINIENABSTAND 200
296
295
293
200
600
700
800
900
1000
1100
1200
1300
1400
1500
11.80
11.40
11.20
10.80
10.60
10.40
10.20
10.00
9.80
9.60
9.40
9.20
9.00
8.80
8.60
8.40
8.20
8.00
7.80
7.60
7.40
7.20
7.00
6.60
5.60


POSEIDON 86 SCHNITT N/S NORD - SUED AUF 20°40 WEST
VERTIKALSCHNITTE VON 51 BIS 153 INTERVALL 1
260
206
205
203
600
700
800
900
1000
1100
1200
1300
1400
1500
35.60
35.70
35.70
35.60
35.60
35.60
35.50
35.50
35.30
35.00
35.00
TIEFE IN M


VERTIKALSCHNITT VON TJ MIT ISOLINIENABSTAND .200
269
297
288
289
301
282
175
200
225
250
275
300
325
350
375
14.20
14.00
13.80
13.60
13.40
13.20
13.00
12.80
12.60
12.40
12.20
12.00
11.80
16.40
16.20
16.00
15.80
15.60
15.40
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40
13.20
13.00
12.80
12.60
16.60
16.40
16.20
16.00
15.80
15.60
15.40
15.20
15.00
14.80
14.60
14.40
14.20
14.00
13.80
13.60
13.40


297
298
299
301
282
269
175
200
225
250
275
300
325
350
375
400
35.90
35.85
35.80
35.75
35.70
35.65
35.60
36.40
36.35
36.30
36.25
36.20
36.15
36.10
36.05
36.00
35.95
35.90
35.85
35.80
TIEFE IN M


POSEIDON 86 SCHNITT I, NORD - OBER AUF 21:24 MESZ
VERTIKALSCHNITT VON T1 MIT ISOLINIENABSTAND 1.000
269
297
299
301
262
100
200
300
400
500
600
700
800
900
1000
16.00
15.00
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13.00
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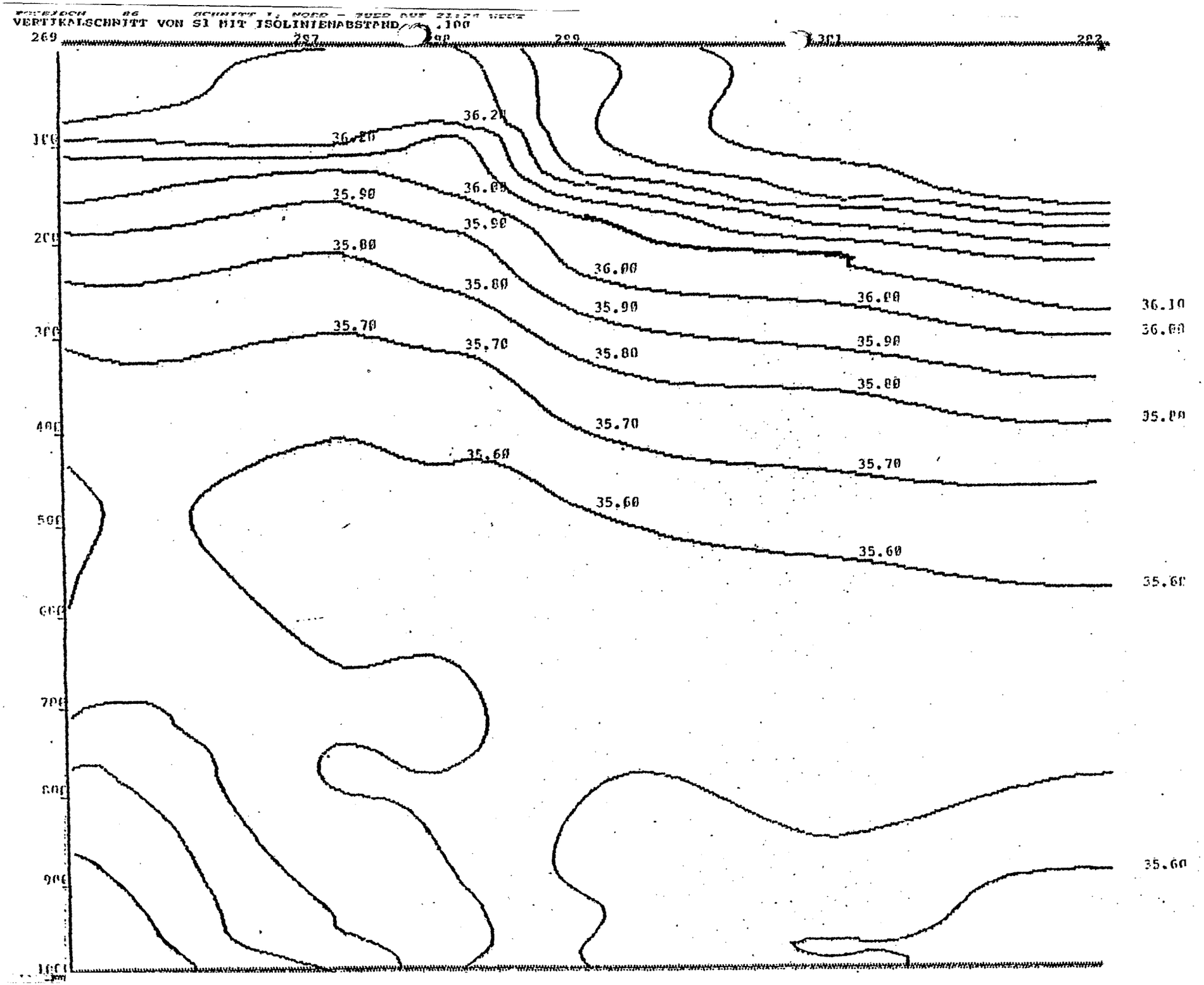
11.00
10.00
5.00


VERTIKALSCHNITT VON SI MIT ISOLINIENABSTAND
269
287
288
289
301
302
100
200
300
400
500
600
700
800
900
1000
36.20
36.20
36.00
35.90
35.90
36.00
35.80
35.80
35.90
36.00
36.10
36.00
35.70
35.70
35.80
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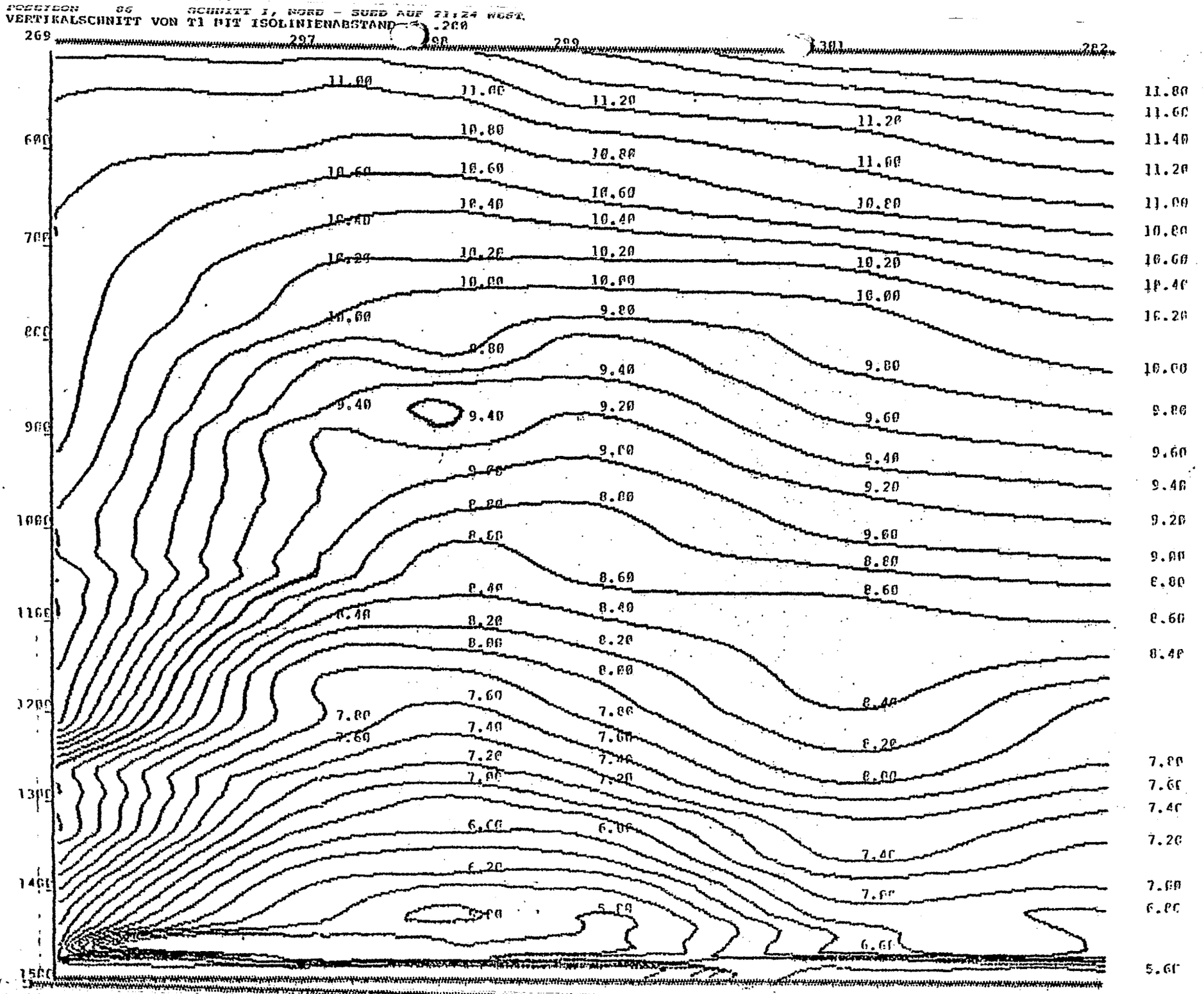
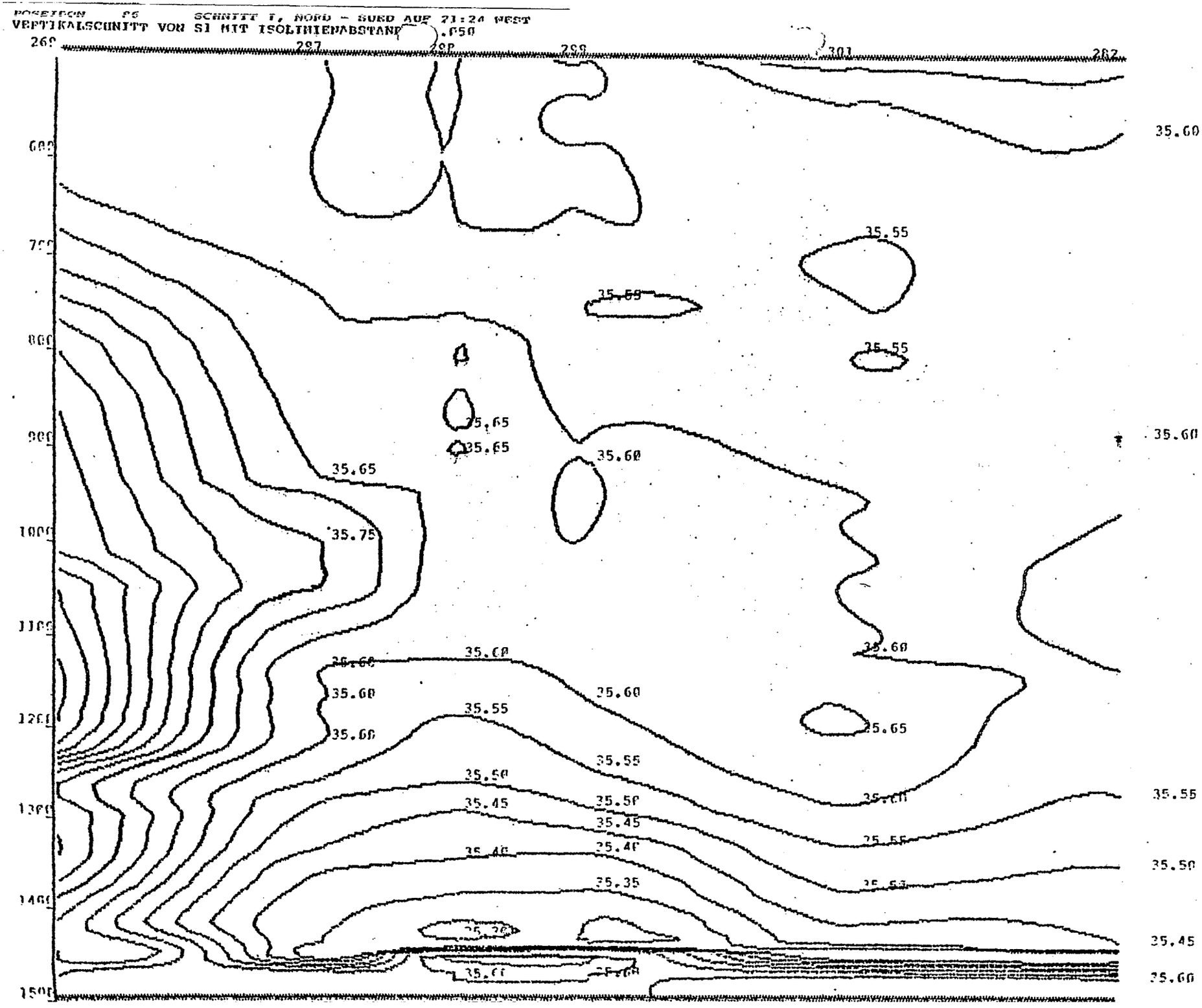
35.70
35.60
35.60
35.60


POSITION 66 SCHNITT I, NORD - SUED AUF 21:24 WEST
VERTIKALSCHNITT VON T1 MIT ISOLINIENABSTAND = .200
269
297
299
301
282
600
700
800
900
1000
1100
1200
1300
1400
1500
11.80
11.60
11.40
11.20
11.00
10.80
10.60
10.40
10.20
10.00
9.80
9.60
9.40
9.20
9.00
8.80
8.60
8.40
8.20
8.00
7.80
7.60
7.40
7.20
7.00
6.80
6.60
5.60


POSITION 66 SCHNITT I, NORD - SUED AUF 21:24 WEST
VERTIKALSCHNITT VON SI MIT ISOLINIENABSTAND .050
260
287
288
299
301
262
600
700
800
900
1000
1100
1200
1300
1400
1500
35.60
35.55
35.55
35.65
35.65
35.65
35.60
35.75
35.60
35.60
35.60
35.60
35.55
35.60
35.65
35.55
35.50
35.45
35.50
35.45
35.40
35.40
35.35
35.55
35.50
35.45
35.60